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OCT 12 1964
CRPL-F 241 PART A

FOR OFFICIAL USE

PART A
IONOSPHERIC DATA

ISSUED
SEPTEMBER 1964

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

IONOSPHERIC DATA

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IONOSPHERIC DATA

The CRPL-F series bulletins are issued as part of the responsibility of the Central Radio Propagation Laboratory for the exchange and distribution of ionospheric and related geophysical data. Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," of the CRPL-F series present a variety of data in convenient form for use in research in radio propagation and the ionosphere and in other geophysical problems.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into the median determination (count) for all ionospheric characteristics listed. Also, when available, the upper and lower quartile values indicated by UQ and LQ in the tables, are listed for f_oF_2 , $h'F_2$, $h'F$, and $M(3000)F_2$. Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods.

Beginning with CRPL-F221, Part A, "Ionospheric Data," the hourly median values for the graphs of critical frequencies and $M(3000)F_2$ were plotted by machine methods instead of manually, as in earlier issues. Graphs of critical frequencies and $M(3000)F_2$ will continue to appear. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers are no longer included. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are available from the CRPL and the IGY World Data Center for Airglow and Ionosphere.

For many years, the tables of ionospheric data appearing in the F series, Part A, listed values of medians recomputed at CRPL. While this practice enforced a certain uniformity, it was subject to some valid criticism for tampering with the original data. The tables and graphs now show the ionospheric data as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data rests entirely with the originator.

Medians of data for the U.S. stations are computed in accordance with the recommendations of the World-Wide Soundings Committee. Data will appear in the F series, Part A, only when the complete daily-hourly tabulations have been received by the CRPL or the IGY World Data Center A for Airglow and Ionosphere.

Information on symbols, terminology, and conventions may be found in the "URSI Handbook of Ionogram Interpretation and Reduction, of the World-Wide Soundings Committee," edited by W. R. Piggott and K. Rawer (Elsevir, 1961), which supersedes previous documents. A list of symbols is available from CRPL on request.

The following table contains the latest available information on smoothed observed Zurich sunspot numbers, beginning with the minimum of April 1954. Final numbers are listed through June 1963, the succeeding values being based on provisional data.

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	10	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51	50	49
1962	45	42	40	39	39	38	37	35	33	31	30	30
1963	29	30	30	29	29	28	28	27	27	26	23	21
1964	19	17										

Units of Ionospheric Data Tables

foF2, foEs - - - Tenths of a megacycle
 foF1, foE - - - Hundredths of a megacycle
 h'F2, h'F, h'E - Kilometers
 M(3000)F2 - - - Hundredths

NOTE: Occasionally, when the median falls between two of the observed values, the median is carried an extra decimal place beyond these units. Those cases are easily identifiable by the extra digit appearing to the right of the number, in a column usually left blank.

MED - Median
 CNT - Count
 UQ - Upper Quartile
 LQ - Lower Quartile

WORLD - WIDE SOURCES OF IONOSPHERIC DATA

THE IONOSPHERIC DATA GIVEN IN TABLES 1 TO 100 AND FIGURES 1 TO 100 WERE ASSEMBLED BY THE CENTRAL RADIO PROPAGATION LABORATORY FOR ANALYSIS, CORRELATION AND DISTRIBUTION. THE FOLLOWING ARE THE SOURCES OF THE DATA IN THIS ISSUE.

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HUANCAYO, PERU (INSTITUTO GEOFISICO DEL PERU)

MAUI, HAWAII

TALARA, PERU (INSTITUTO GEOFISICO DEL PERU)

TABLE 10

• 附刊

ST. MONMOUTH, NEW JERSEY

[illegible]

TABLE 12

100

FT. BELVOIR, VIRGINIA

[illegible]

TABLE 9

[illegible]

TABLE 17

2

hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	CNT	18	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	UG	25	31	32	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
f6F2	MED	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30							

TABLE 14
JAN. 1944-45 78*2W

[illegible]

TABLE 16

(20, 8N, 150, 5W)

[illegible]

WHITE CANON & ALFRED MESSICO
15 JAN. 1938
- APR. 13

[illegible]

124. 34. 127. 65.

126.3M, 127.6E												TIME 135.0														
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
f6F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25	23	21	19	17	15	14	13	11	9	8	7	5	4	36	36		
f7F2	MED	36	35	33	31	30	28	27	26	24	23	21	20	18	17	15	14	13	11	9	8	7	5	4	36	36
	Q10	40	38	36	34	32	30	28	26	24	22	20	18	17	15	14	13	11	9	8	7	5	4	36	36	
	LO	39	37	35	33	31	29	27	25																	

TABLE 17

113.7M, 100.6E)

QANGKOR, THAI AND

TIME 100.0%

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

MARCH, 1964

TABLE 19

2

[illegible]

SLEEP 0.25 MC TO 20.0 MC IN 2 MINUTES 30 SECONDS*

FEBRUARY, 1964

TABLE 10

112,005, 75-3411

MILAN, A.T.O. P. 44

TIME 74-004

hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
to F	MED	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	CNT	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	LO	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
to F2	MED	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	CNT	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	LO	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
to F	MED	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	CNT	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	LO	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
to E	MED	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	CNT	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	LO	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
to EA	MED	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	CNT	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1
	LO	0.9	1.0	0.9	0.6	0.5	0.7	0.3	0.6	0.8	1.0	0.6	0.2	0.3	0.2	0.4	0.2	0.3	0.2	0.5	0.6	0.7	0.7	0.1

SWEEP 0.25 MC TO 20.0 MC IN 1 MINUTE 48 SECONDS.

MARCH, 1964

TABLE 20

+

 $\rightarrow A \rightarrow B \rightarrow C \rightarrow D \rightarrow E \rightarrow F \rightarrow G \rightarrow H \rightarrow I \rightarrow J \rightarrow K \rightarrow L \rightarrow M \rightarrow N \rightarrow O \rightarrow P \rightarrow Q \rightarrow R \rightarrow S \rightarrow T \rightarrow U \rightarrow V \rightarrow W \rightarrow X \rightarrow Y \rightarrow Z$

2000

GROUP	00	01	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
F6E2	MED																					
	CNT																					
	UO																					
F6E3	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
M3000F2	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
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F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					
	UO																					
F6E	MED																					
	CNT																					

SWEEP 3.25 MC TO 20.0 MC IN 27 SECONDS*

FEBRUARY, 1964

TABLE 22

		LULEÅ, SWEDEN (65.8N, 22.1E)																				TIME 15:00			
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED CNT UO LO	23 6	11 6	24 6	27 3	49 5	22 2	21 3	25 2	36 18	41 27	47 28	54 26	52 26	54 26	53 24	48 27	45 25	38 20	26 12	23 5	24 5	23 5	24 2	24
16 F2	MED CNT UO LO																								
16 F	MED CNT UO LO	280 11	270 14	260 12	250 7	240 5	230 2	220 3	210 19	200 27	190 28	180 27	170 26	160 24	150 22	140 20	130 18	120 16	110 15	100 11	90 11	80 8	70 10	60 10	50
M3000F2	MED CNT UO LO	370 6	360 6	350 6	340 6	330 5	320 2	310 2	300 18	290 27	280 28	270 26	260 24	250 22	240 20	230 18	220 16	210 14	200 12	190 10	180 8	170 6	160 5	150 2	140
16 F1	MED CNT																								
16 E	MED CNT																								
16 E	MED CNT																								
16 E	MED CNT																								
16 E	MED CNT																								
16 E	MED CNT																								

SWEET 0.45 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC.

FEBRUARY, 1964

TABLE 24

		NARSARSUAQ, GREENLAND (61+28N, 49+48W)																			TIME 45+55				
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED CNT UO LO	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
16 F2	MED CNT UO LO																								
16 F	MED CNT UO LO																								
M3000F2	MED CNT UO LO																								
16 F	MED CNT																								
16 E	MED CNT																								
16 E	MED CNT																								
16 E	MED CNT																								

SWEET 1.0 MC TO 25.0 MC IN 16+2 SECONDS.

FEBRUARY, 1964

TABLE 21

		SODANKYLÄ, FINLAND 167.44N, 26.68E																			TIME 30:00				
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED	28	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	CNT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	UO	340	330	320	310	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	150	140	130	120	
	LO	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
16 F2	MED	28	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	CNT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	UO	340	330	320	310	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	150	140	130	120	
	LO	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
16 F	MED	28	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	CNT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	UO	340	330	320	310	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	150	140	130	120	
	LO	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
M3000F2	MED	270	260	250	240	230	220	210	200	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40
	CNT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	UO	340	330	320	310	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	150	140	130	120	
	LO	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
16 F1	MED																								
	CNT																								
16 E	MED																								
	CNT																								
16 E	MED																								
	CNT																								
16 E	MED																								
	CNT																								
16 E	MED																								
	CNT																								

SWEET 1.4 MC TO 22.0 MC IN 8 MINUTES, AUTOMATIC.

FEBRUARY, 1964

TABLE 23

		64°10N, 21°08W																			TIME 15:00				
		REYKJAVIK, ICELAND																							
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16 F2	MED CNT UO LO	2 3 24 20	3 4 24 20	3 4 25 18	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16
16 F2	MED CNT UO LO	2 3 24 20	3 4 25 18	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16
16 F	MED CNT UO LO	2 3 24 20	3 4 25 18	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16
M3000F2	MED CNT UO LO	2 3 24 20	3 4 25 18	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16
16 F1	MED CNT	2 3 24 20	3 4 25 18	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16
16 E	MED CNT	2 3 24 20	3 4 25 18	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16
16 E	MED CNT	2 3 24 20	3 4 25 18	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16
16 E	MED CNT	2 3 24 20	3 4 25 18	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16	3 4 25 16

SWEET 1.0 MC TO 25.0 MC IN 16+2 SECONDS.

FEBRUARY, 1964

TABLE 26

160-5N, 24-0E)

NURMIJARVI, FINLAND

TIME 150.0M

TABLE 25

(61.2N, 145.0W)

ANCHORAGE, ALASKA

TIME 150.0M

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED																							
	CNT																							
	UO																							
	LO																							
f6F1	MED																							
	CNT																							
	UO																							
	LO																							
f6E	MED																							
	CNT																							
	UO																							
	LO																							
f6Ea	MED																							
	CNT																							
	UO																							
	LO																							

SWEEP 1.0 MC TO 25.0 MC IN 1 MINUTE.

FEBRUARY, 1964

SWEEP 0.25 MC TO 20.0 MC IN 27 SECONDS.

FEBRUARY, 1964

TABLE 28

151.9N, 176.8W)

ADAK, ALASKA

TIME 150.0M

TABLE 27

(61.2N, 145.0W)

ANCHORAGE, ALASKA

TIME 150.0M

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED	78	70	55	48	32	31	28	33	42	50	54	56	59	57	59	53	44	39	28	26	38	22	26	29
	CNT	26	24	25	21	23	20	28	29	36	40	42	43	44	43	42	38	30	24	20	28	24	25	29	
	UO	32	31	33	33	36	35	32	36	41	45	46	47	47	46	45	40	32	24	20	28	24	25	29	
	LO	25	26	26	25	26	26	26	25	26	27	27	27	27	27	27	26	24	20	18	26	21	20	23	25
f6F2	MED									234	242	255	246	248	251	235	238								
	CNT									136	140	147	143	143	143	137	138								
	UO									239	246	259	259	253	257	240	233								
	LO									228	232	237	238	234	232	224	215								
f6F	MED	77	68	55	47	25F	34	37	24	15	12	13	10	10	11	23	45.8	21.8	11.5	22.0	22.0	25.0	26.0	26.0	
	CNT	23	20	20	20	26	26	26	23	20	18	18	18	18	18	20	20	20	20	20	20	20	20	20	
	UO	28	26	26	26	28	28	28	27	24	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
	LO	28	28	28	26	28	28	28	27	24	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
M3000F2	MED	118	91	112	118	115	121	113	107	95	86	75.5	85	85.5	95.5	94.5	165	360	350	350	360	35	32	320	310
	CNT	31	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
	UO	31	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
	LO	31	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
f6J	MED																								
	CNT																								
	UO																								
	LO																								
f6L	MED									144.2	248	229	240	266	262	260	259	255	248						
	CNT									6	7	7	7	7	7	7	7	7							
	UO									144.2	248	229	240	266	262	260	259	255	248						
	LO									6	7	7	7	7	7	7	7	7							
f6E	MED									155	152	110	112	114	111	114	111	114							
	CNT									2	2	2	2	2	2	2	2	2							
	UO									155	152	110	112	114	111	114	111	114							
	LO									2	2	2	2	2	2	2	2	2							
f6E4	MED	4	10	10	11	11				14	21	24	26	28	25	25	23	25	17	18	18	13	23		
	CNT									1	1	1	1	1	1	1	1	1							
	UO									14	21	24	26	28	25	25	23	25	17	18	18	13	23		
	LO									1	1	1	1	1	1	1	1	1							

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

FEBRUARY, 1964

SWEEP 1.0 MC TO 18.0 MC IN 20 SECONDS.

FEBRUARY, 1964

[illegible][illegible]

1. 10^3 2. 10^4 3. 10^5 4. 10^6 5. 10^7 6. 10^8 7. 10^9 8. 10^{10} 9. 10^{11} 10. 10^{12} 11. 10^{13} 12. 10^{14} 13. 10^{15} 14. 10^{16} 15. 10^{17} 16. 10^{18} 17. 10^{19} 18. 10^{20} 19. 10^{21} 20. 10^{22} 21. 10^{23} 22. 10^{24} 23. 10^{25} 24. 10^{26} 25. 10^{27} 26. 10^{28} 27. 10^{29} 28. 10^{30} 29. 10^{31} 30. 10^{32} 31. 10^{33} 32. 10^{34} 33. 10^{35} 34. 10^{36} 35. 10^{37} 36. 10^{38} 37. 10^{39} 38. 10^{40} 39. 10^{41} 40. 10^{42} 41. 10^{43} 42. 10^{44} 43. 10^{45} 44. 10^{46} 45. 10^{47} 46. 10^{48} 47. 10^{49} 48. 10^{50} 49. 10^{51} 50. 10^{52} 51. 10^{53} 52. 10^{54} 53. 10^{55} 54. 10^{56} 55. 10^{57} 56. 10^{58} 57. 10^{59} 58. 10^{60} 59. 10^{61} 60. 10^{62} 61. 10^{63} 62. 10^{64} 63. 10^{65} 64. 10^{66} 65. 10^{67} 66. 10^{68} 67. 10^{69} 68. 10^{70} 69. 10^{71} 70. 10^{72} 71. 10^{73} 72. 10^{74} 73. 10^{75} 74. 10^{76} 75. 10^{77} 76. 10^{78} 77. 10^{79} 78. 10^{80} 79. 10^{81} 80. 10^{82} 81. 10^{83} 82. 10^{84} 83. 10^{85} 84. 10^{86} 85. 10^{87} 86. 10^{88} 87. 10^{89} 88. 10^{90} 89. 10^{91} 90. 10^{92} 91. 10^{93} 92. 10^{94} 93. 10^{95} 94. 10^{96} 95. 10^{97} 96. 10^{98} 97. 10^{99} 98. 10^{100} 99. 10^{101} 100. 10^{102} 101. 10^{103} 102. 10^{104} 103. 10^{105} 104. 10^{106} 105. 10^{107} 106. 10^{108} 107. 10^{109} 108. 10^{110} 109. 10^{111} 110. 10^{112} 111. 10^{113} 112. 10^{114} 113. 10^{115} 114. 10^{116} 115. 10^{117} 116. 10^{118} 117. 10^{119} 118. 10^{120} 119. 10^{121} 120. 10^{122} 121. 10^{123} 122. 10^{124} 123. 10^{125} 124. 10^{126} 125. 10^{127} 126. 10^{128} 127. 10^{129} 128. 10^{130} 129. 10^{131} 130. 10^{132} 131. 10^{133} 132. 10^{134} 133. 10^{135} 134. 10^{136} 135. 10^{137} 136. 10^{138} 137. 10^{139} 138. 10^{140} 139. 10^{141} 140. 10^{142} 141. 10^{143} 142. 10^{144} 143. 10^{145} 144. 10^{146} 145. 10^{147} 146. 10^{148} 147. 10^{149} 148. 10^{150} 149. 10^{151} 150. 10^{152} 151. 10^{153} 152. 10^{154} 153. 10^{155} 154. 10^{156} 155. 10^{157} 156. 10^{158} 157. 10^{159} 158. 10^{160} 159. 10^{161} 160. 10^{162} 161. 10^{163} 162. 10^{164} 163. 10^{165} 164. 10^{166} 165. 10^{167} 166. 10^{168} 167. 10^{169} 168. 10^{170} 169. 10^{171} 170. 10^{172} 171. 10^{173} 172. 10^{174} 173. 10^{175} 174. 10^{176} 175. 10^{177} 176. 10^{178} 177. 10^{179} 178. 10^{180} 179. 10^{181} 180. 10^{182} 181. 10^{183} 182. 10^{184} 183. 10^{185} 184. 10^{186} 185. 10^{187} 186. 10^{188} 187. 10^{189} 188. 10^{190} 189. 10^{191} 190. 10^{192} 191. 10^{193} 192. 10^{194} 193. 10^{195} 194. 10^{196} 195. 10^{197} 196. 10^{198} 197. 10^{199} 198. 10^{200} 199. 10^{201} 200. 10^{202} 201. 10^{203} 202. 10^{204} 203. 10^{205} 204. 10^{206} 205. 10^{207} 206. 10^{208} 207. 10^{209} 208. 10^{210} 209. 10^{211} 210. 10^{212} 211. 10^{213} 212. 10^{214} 213. 10^{215} 214. 10^{216} 215. 10^{217} 216. 10^{218} 217. 10^{219} 218. 10^{220} 219. 10^{221} 220. 10^{222} 221. 10^{223} 222. 10^{224} 223. 10^{225} 224. 10^{226} 225. 10^{227} 226. 10^{228} 227. 10^{229} 228. 10^{230} 229. 10^{231} 230. 10^{232} 231. 10^{233} 232. 10^{234} 233. 10^{235} 234. 10^{236} 235. 10^{237} 236. 10^{238} 237. 10^{239} 238. 10^{240} 239. 10^{241} 240. 10^{242} 241. 10^{243} 242. 10^{244} 243. 10^{245} 244. 10^{246} 245. 10^{247} 246. 10^{248} 247. 10^{249} 248. 10^{250} 249. 10^{251} 250. 10^{252} 251. 10^{253} 252. 10^{254} 253. 10^{255} 254. <

MOLR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED	33	31	34	37	33	33	36	33	35	34	35	34	36	35	38	40	43	47	52	57	54	35	35
	CNT	28	27	28	27	27	28	27	27	28	27	28	29	29	29	28	27	26	25	24	23	22	21	20
	LO	35	35	36	34	33	37	37	34	34	35	36	37	37	37	37	37	37	37	36	34	34	34	33
16F2	MED	33	31	34	37	33	33	36	33	35	34	35	34	36	35	38	40	43	47	52	57	54	35	35
	CNT	28	27	28	27	27	28	27	27	28	27	28	29	29	29	28	27	26	25	24	23	22	21	20
	LO	35	35	36	34	33	37	37	34	34	35	36	37	37	37	37	37	37	37	36	34	34	34	33
16F2	MED	33	31	34	37	33	33	36	33	35	34	35	34	36	35	38	40	43	47	52	57	54	35	35
	CNT	28	27	28	27	27	28	27	27	28	27	28	29	29	29	28	27	26	25	24	23	22	21	20
	LO	35	35	36	34	33	37	37	34	34	35	36	37	37	37	37	37	37	37	36	34	34	34	33
M30001F2	MED	295	295	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305
	CNT	28	28	27	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28
	LO	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305
16F1	MED	270	280	265	260	270	280	245	230	210	215	235	230	220	210	210	230	250	250	250	250	250	250	250
	CNT	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28
	LO	290	295	280	285	280	295	250	240	235	230	245	240	235	230	240	245	250	255	255	255	255	255	255
16E	MED	150	280	270	260	270	280	240	230	210	215	235	230	220	210	210	230	250	250	250	250	250	250	250
	CNT	13	27	27	26	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27
	LO	160	280	270	260	270	280	240	230	210	215	235	230	220	210	210	230	250	250	250	250	250	250	250
16E	MED	150	280	270	260	270	280	240	230	210	215	235	230	220	210	210	230	250	250	250	250	250	250	250
	CNT	13	27	27	26	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27
	LO	160	280	270	260	270	280	240	230	210	215	235	230	220	210	210	230	250	250	250	250	250	250	250
16E	MED	28	26	26	28	28	28	28	28	28	28	28	28	28	28	27	25	28	28	28	28	27	28	28
	CNT																							
	LO																							

TABLE 32

• 4M. 76.1M

[illegible]

SWEEP 1.0 MC TO 20.0 MC IN 3 MINUTES.

FEBRUARY, 1964

KEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

FEBRUARY, 1966

TABLE 38

		11A, 74 121.16																				TIME 1206.00			
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
to F2 MED CUT LO	to F2	56	36	36	36	27	18	21	30	63	78	84	68	66	86	85	86	94	83	84	80	66	56	56	54
	MED	56	42	30	24	25	18	25	34	67	82	84	68	66	86	85	86	94	83	84	80	66	56	56	54
	CUT	56	42	30	24	25	18	25	34	67	82	84	68	66	86	85	86	94	83	84	80	66	56	56	54
	LO	34	32	46	38	50	46	48	51	73	78	81	85	77	80	76	74	80	80	74	57	50	48	41	
to F2 MED CUT LO	to F2	275	305	327	333	353	360	386	335	300	265														
	MED	275	27	27	26	27	27	25	23	25	21	16													
	CUT	275	27	27	26	27	27	25	23	25	21	16													
	LO																								
to F MED CUT LO	to F	230	235	235	235	255	350	260	240	225	440	210	500	190	190	13	7	6	15	76	48	24	7	24	25
	MED	230	235	235	235	255	350	260	240	225	440	210	500	190	190	13	7	6	15	76	48	24	7	24	25
	CUT	230	235	235	235	255	350	260	240	225	440	210	500	190	190	13	7	6	15	76	48	24	7	24	25
	LO	27	25	26	24	21	5	3	28	24	21	31	15	50	13	7	6	15	76	48	24	7	24	25	
MIS000IF2 MED CUT LO	MIS000IF2	350	340	340	335	320	320	305	350	335	324	304	285	270	260	260	275	295	305	315	320	340	325	325	340
	MED	350	340	340	335	320	320	305	350	335	324	304	285	270	260	260	275	295	305	315	320	340	325	325	340
	CUT	350	340	340	335	320	320	305	350	335	324	304	285	270	260	260	275	295	305	315	320	340	325	325	340
	LO	335	320	334	325	310	310	290	345	325	307	280	260	250	242	250	255	285	290	305	320	320	315	320	330
to F1 MED CUT LO	to F1									41	43	43	43	43	44	40	410								
	MED									41	43	43	43	43	44	40	410								
	CUT									41	43	43	43	43	44	40	410								
	LO																								
to E MED CUT LO	to E	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
	MED	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
	CUT	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
	LO	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
to E MED CUT LO	to E	22	22	22	24	24	23	22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	MED	22	22	22	24	24	23	22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	CUT	22	22	22	24	24	23	22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	LO	22	22	22	24	24	23	22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

TABLE 40

[illegible]

TABLE 37

[illegible]

TABLE 4. 1991

BANGKOK, THAILAND											(13.7°N, 100.6°E)											TIME 100-SE		
WDR	00	0	02	03	04	05	06	07	09	10	12	13	14	15	16	17	18	19	20	21	22	23		
f6F2	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6F2	MED	35	30	27	21	40	30	35	320	330	342	330	311	311	311	311	311	311	311	311	311	311		
MED	25	26	26	25	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6F2	MED	35	30	27	21	40	30	35	320	330	342	330	311	311	311	311	311	311	311	311	311	311		
MED	25	26	26	25	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
M30001F2	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6F1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27	46	64	71	75	71	70	68	74	75	77	76	68	56	56	47		
MED	22	23	23	22	14	34	26	26	27	28	27	28	28	27	27	27	27	27	27	25	23	23		
QNT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
LO	44	32	27	23	10	40	44	45	57	67	67	63	62	65	65	68	74	73	65	53	43	37		
f6E1	C	45	37	32	24	44	27																	

TABLE 42

GODLEY HEAD (CHRISTCHURCH), N.Z. (43°6S, 172°08E)

TIME 280.0E

HOOR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED CNT	42 26	39 27	33 16	29 35	27 26	32 23	42 46	52 25	53 24	53 22	53 22	53 22	53 22	56 24	56 26	56 27	55 28	55 26	56 27	50 27	48 25	50 25	46 26
f6F2	MED CNT	300	310	310	320	330	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
f6F	MED CNT	270	260	250	240	230	220	210	200	190	180	170	160	150	140	130	120	110	100	90	80	70	60	50
M3000F2	MED CNT	310	315	320	320	315	325	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
f6F1	MED CNT	310	315	320	320	315	325	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350
f6E	MED CNT	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
f6Ea	MED CNT	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

SWEEP 1.0 MC TO 22.0 MC IN 7 SECONDS.

FEBRUARY, 1964

TABLE 4A

174-7M 04-0911

TIME 00.00M

	hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f0F2	MED	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	CNT	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	UD	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
f0F	MED	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	CNT	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	UD	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
M3000F2	MED	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	CNT	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	UD	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
f0F	MED	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	CNT	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	UD	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
f0E	MED	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	CNT	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	UD	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
f0E	MED	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	CNT	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	UD	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
f0E4	MED	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	CNT	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
	UD	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3

IN 14 SECONDS

JANUARY, 1946

TABLE 1. *Continued*

115 AC-7E 3M1

TIME 79.5W

[illegible][illegible]

WEEK 0-25 MC TO 0 MC IN 1 MINUTE 48 SECONDS -

FEBRUARY, 1984

5
6
7
8
9
10

78 200

HOUR		7/24/44												23										
		00	01	02	03	04	05	06	07	08	09	10	11		12	13	14	15	16	17	18	19	20	21
f6F2	MED	U	U	U	J	J	J	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	UO	2.0	1.9	1.8	1.7	2.2	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1
	UO	2.1	2.0	1.9	1.8	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2
	UO	2.2	2.1	2.0	1.9	2.4	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3
	UO	2.3	2.2	2.1	2.0	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4
f6F2	MED	U	U	U	J	J	J	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	UO	1.6	1.5	1.4	1.3	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5	.4	.3	.2	.1	.0
	UO	1.7	1.6	1.5	1.4	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5	.4	.3	.2	.1
	UO	1.8	1.7	1.6	1.5	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5	.4	.3	.2
	UO	1.9	1.8	1.7	1.6	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5	.4	.3
f6F	MED	U	U	U	J	J	J	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	UO	2.6	2.5	2.4	2.3	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0
	UO	2.7	2.6	2.5	2.4	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1
	UO	2.8	2.7	2.6	2.5	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2
	UO	2.9	2.8	2.7	2.6	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3
M35000F2	MED	U	U	U	J	J	J	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	UO	3.1	3.0	2.9	2.8	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8
	UO	3.2	3.1	3.0	2.9	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9
	UO	3.3	3.2	3.1	3.0	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0
	UO	3.4	3.3	3.2	3.1	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1
f6F	MED	U	U	U	J	J	J	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	UO	2.5	2.4	2.3	2.2	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9
	UO	2.6	2.5	2.4	2.3	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0
	UO	2.7	2.6	2.5	2.4	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1
	UO	2.8	2.7	2.6	2.5	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2
f6E	MED	U	U	U	J	J	J	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	UO	2.2	2.1	2.0	1.9	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6
	UO	2.3	2.2	2.1	2.0	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7
	UO	2.4	2.3	2.2	2.1	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8
	UO	2.5	2.4	2.3	2.2	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9
f6E	MED	U	U	U	J	J	J	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	UO	2.0	1.9	1.8	1.7	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5	.4
	UO	2.1	2.0	1.9	1.8	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5
	UO	2.2	2.1	2.0	1.9	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6
	UO	2.3	2.2	2.1	2.0	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7
f6E	MED	U	U	U	J	J	J	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	UO	1.8	1.7	1.6	1.5	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5	.4	.3	.2
	UO	1.9	1.8	1.7	1.6	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5	.4	.3
	UO	2.0	1.9	1.8	1.7	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5	.4
	UO	2.1	2.0	1.9	1.8	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	.9	.8	.7	.6	.5

MANIAC - 106A

TABLE 46
12

FROM TO, MONDAY		10-11 PM, TUESDAY											TIME 11-00													
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
10-12	MED											32	41		63	75	76									
	LO											38	45		65	70	80									
	LO											50	50		60	66	81									
11-12	MED																									
	LO																									
	LO																									
11-1	MED																									
	LO																									
	LO																									
11-2	MED																									
	LO																									
	LO																									
11-3	MED																									
	LO																									
	LO																									
11-4	MED																									
	LO																									
	LO																									
11-5	MED																									
	LO																									
	LO																									
11-6	MED																									
	LO																									
	LO																									
11-7	MED																									
	LO																									
	LO																									
11-8	MED																									
	LO																									
	LO																									
11-9	MED																									
	LO																									
	LO																									
11-10	MED																									
	LO																									
	LO																									
11-11	MED																									
	LO																									
	LO																									
11-12	MED																									
	LO																									
	LO																									
11-13	MED																									
	LO																									
	LO																									
11-14	MED																									
	LO																									
	LO																									
11-15	MED																									
	LO																									
	LO																									
11-16	MED																									
	LO																									
	LO																									
11-17	MED																									

TABLE 46

SODANEYLA, FINLAND (67.4N; 26.6E)

[illegible]

T. A. M. L. 495

BASELINE, 4.0-1.0		7.0-24.0, 15.0-24.0																								
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
f ₈ F2	MED				2.1									4.6	7.0	4.1	4.8	3.7	3.4	3.5	2.8					
	CNT				2.2									3.7	3.6	3.3	3.7	3.1	3.6	3.2	3.0					
	LO				2.4									3.2	2.9	3.1	3.6	2.4	3.1	2.7	2.2	1.6				
h'F2	MED																									
	CNT																									
	LO																									
h'F	MED																									
	CNT																									
	LO																									
M3000F2	MED				4.5									3.3	3.6	3.6	3.7	3.7	3.9	3.3						
	CNT				3.5									2.6	2.4	2.4	2.7	2.7	3.6	3.2						
	LO				2.3									2.1	1.8	1.9	2.1	2.1	3.0	2.7						
f ₈ F	MED																									
	CNT																									
	LO																									
f ₈ E	MED																									
	CNT																									
	LO																									
h'E	MED																									
	CNT																									
	LO																									
f ₈ E _s	MED	4.4	4.7	4.0	3.4		3.6		3.8					3.4	3.0	2.7	2.4	2.1	2.1	2.1	2.0	1.6	1.5	1.4	1.0	0.8
	CNT	2.9	2.7	2.7	2.5		2.4		2.6					2.3	2.0	1.8	1.6	1.4	1.4	1.3	1.2	1.0	0.8	0.7	0.6	0.4
	LO													1.9	1.6	1.4	1.2	1.1	1.0	0.9	0.7	0.6	0.5	0.4	0.3	0.2

TABLE 47

[illegible]

TABLE 64

TIME 15.0E

WARSAW (H1FDZESZY), POLAND

[illegible]

JANUARY, 1964

TABLE 56

TIME 0.0

COURBES, BELGIUM

[illegible]

JANUARY - 1966

TABLE 53

AU-06 3ml.

Journal of Management Education 34(1)

[illegible]

JANUARY, 1964

TABLE 55

TIME 0-0

SLIGHTLY, FROG AND

[illegible]

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC.

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC.

TABLE 57

... FINORA, CANADA

49.8M, 94.4M)

TIME 90.0W MO.06 3M11

[illegible]

SWEEP 1.0 MC TO 16.0 MC IN 20 SECONDS.

JANUARY, 1964

TABLE 59

[illegible]

1610

TIME 0.35, C₀[illegible]

SWEEP 1.0 MC TO 18.0 MC IN 40 SECONDS.

JANUARY, 1964

TABLE 58

P. T. JOHNS, NEWFOUNDLAND

47.6N, 52.7W1

TIME 60.00M

HOUR		DAY																							
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
T ₀₂	MED	15	15	15	16	11	4	26	40	47	52	54	54	53	53	50	45	38	32	25	21	20	18	14	
	CRT	10	9	7	8	11	11	25	27	31	30	30	31	29	30	30	31	29	28	27	24	18	12	14	
	LO	15	14	14	15	14	14	26	39	44	46	46	51	56	58	50	46	41	34	27	23	20	17	16	
	UO	15	14	14	15	14	14	26	39	44	46	46	51	56	58	50	46	41	34	27	23	20	17	16	
T ₀₂	MED																								
	CRT																								
	LO																								
	UO																								
T ₀₂	MED																								
	CRT																								
	LO																								
	UO																								
T ₀₂	MED																								
	CRT																								
	LO																								
	UO																								
T ₀₂	MED																								
	CRT																								
	LO																								
	UO																								
T ₀₂	MED																								
	CRT																								
	LO																								
	UO																								
T ₀₂	MED																								
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T ₀₂	MED																								
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T ₀₂	MED																								
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	UO																								
T ₀₂	MED																								
	CRT																								
	LO																								
	UO																								
T ₀₂	MED																								
	CRT																								
	LO																								
	UO																								

SWEEP 1.0 MC TO 16.0 MC IN 20 SECONDS.

JANUARY, 1966

TABLE 60

OTTAWA, CANADA

6504M. 75.9M1

75.0W

[illegible]

KEEP 1.0 MC TO 16.0 MC IN 16 SECONDS.

ANILBY, 1964

TABLE 65

KOKUBUNJI, TOKYO, JAPAN
(35.7N, 139.5E)
TIME 135.0E

	hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MEQ	29	30	30	30	27	25	28	42	50	52	52	53	55	53	56	57	45	40	33	34	33	27	27	24
	MEQ	29	29	29	29	26	25	28	42	50	52	52	53	55	53	56	57	45	40	33	34	33	27	27	24
	LO	31	32	35	35	30	29	30	44	54	60	70	75	75	66	64	61	51	36	19	37	31	48	30	48
f6F2	MEQ	28	28	28	27	25	23	24	41	22	25	26	24	25	26	26	23	20	15	10	7	2	2	2	2
	MEQ	28	28	28	27	25	23	24	41	22	25	26	24	25	26	26	23	20	15	10	7	2	2	2	2
	LO	28	29	28	29	28	29	25	47	28	29	26	22	23	24	24	29	30	29	28	22	28	26	27	26
f6F	MEQ	27	28	28	26	25	25	28	45	21	23	23	23	23	23	22	20	17	10	7	2	2	2	2	2
	MEQ	27	28	28	26	25	25	28	45	21	23	23	23	23	23	22	20	17	10	7	2	2	2	2	2
	LO	28	29	28	29	28	29	25	47	28	29	26	22	23	24	24	29	30	29	28	22	28	26	27	26
MISCOOF2	MEQ	29	30	31	32	32	30	31	34	40	45	45	45	45	45	40	36	35	35	30	27	20	20	20	23
	MEQ	28	27	26	26	27	26	28	43	27	30	30	30	30	30	30	30	30	30	25	20	15	15	15	15
	LO	28	27	26	26	27	26	28	43	27	30	30	30	30	30	30	30	30	30	25	20	15	15	15	15
f6F1	MEQ	28	28	28	28	28	28	28	41	22	25	26	24	25	26	26	23	20	15	10	7	2	2	2	2
	MEQ	28	28	28	28	28	28	28	41	22	25	26	24	25	26	26	23	20	15	10	7	2	2	2	2
	LO	28	29	28	29	28	29	25	47	28	29	26	22	23	24	24	29	30	29	28	22	28	26	27	26
f6E	MEQ	29	30	30	30	27	25	28	42	50	52	52	53	55	53	56	57	45	40	33	34	33	27	27	24
	MEQ	29	30	30	30	27	25	28	42	50	52	52	53	55	53	56	57	45	40	33	34	33	27	27	24
	LO	31	32	35	35	30	29	30	44	54	60	70	75	75	66	64	61	51	36	19	37	31	48	30	48
f6E	MEQ	28	28	28	27	25	23	24	41	22	25	26	24	25	26	26	23	20	15	10	7	2	2	2	2
	MEQ	28	28	28	27	25	23	24	41	22	25	26	24	25	26	26	23	20	15	10	7	2	2	2	2
	LO	28	29	28	29	28	29	25	47	28	29	26	22	23	24	24	29	30	29	28	22	28	26	27	26
f6Ea	MEQ	30	26	24	23	29	24	23	22	24	29	31	28	27	26	24	26	23	27	24	28	33	32	29	29
	MEQ	14	12	13	12	11	10	9	8	7	6	5	4	3	2	1	0	1	0	1	1	1	1	1	1
	LO	14	12	13	12	11	10	9	8	7	6	5	4	3	2	1	0	1	0	1	1	1	1	1	1

JANUARY, 1964

TABLE 67

YAMAGAWA, JAPAN
131, 14, 13, 01
TIME 1350

[illegible]

JANUARY, 1964

WHITE SANDS • NEW MEXICO
(32°3N, 106°5W)

WHITE SANDS, NEW MEXICO
(32.3N, 106.5W)
TIME 105.0W

hour		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f2	MED	34	36	35	35	35	34	33	36	48	39	53	38	57	57	59	57	53	56	59	57	59	57	57	59
	INT	27	28	25	25	25	24	24	24	28	29	28	28	27	27	27	27	27	27	27	27	27	27	27	
	LO	35	36	36	36	36	34	36	50	55	58	62	69	70	68	62	58	50	59	53	50	52	54	34	
	LO	28	31	30	30	31	31	25	34	46	50	52	54	62	61	60	56	52	44	32	28	26	24	25	
f2	MED									239	262	270		264	250	246	236								
	INT									3	25	276	283		282	269	255								
	LO									136	240	261		250	249	240	239								
	LO																								
f2	MED	26	25	26	26	29	210	228	250	220	204	206	200	230	230	230	230								
	INT	27	27	26	26	26	26	26	25	26	27	27	27	27	27	27	27								
	LO	27	27	26	26	26	26	26	25	26	27	27	27	27	27	27	27								
	LO	25	26	26	26	26	26	26	25	26	27	27	27	27	27	27	27								
M3000F2	MED	318	317	335	364	365	366	370	361	460	465	360	360	348	345	350	346	370	370	365	350	340	320	328	
	INT	28	27	28	25	23	22	21	24	27	27	22	24	27	27	26	27	27	27	27	25	24	27	24	
	LO	332	330	334	352	365	367	336	350	370	373	365	350	350	355	345	370	370	370	368	345	355	350	340	
	LO	310	310	370	320	340	340	340	340	350	350	345	345	340	330	344	350	360	355	350	315	325	325	310	
f6	MED									430	410	410	410	410	420	430	370								
	INT									28	27	27	27	27	27	27	27								
	LO									28	27	27	27	27	27	27	27								
	LO									28	27	27	27	27	27	27	27								
f6	MED									114	107	108	108	108	108	108	108								
	INT									24	24	22	21	21	21	21	21								
	LO									24	24	22	21	21	21	21	21								
	LO									24	24	22	21	21	21	21	21								
f6Es	MED	23	24	4	2	3	4	6	21	21	26	28	31	31	31	30	28	23	18	25	27	6	3	7	30
	INT								27	23	22	23	27	26	24	27	27	26	8						
	LO								27	23	22	23	27	26	24	27	27	26	8						
	LO								27	23	22	23	27	26	24	27	27	26	8						

JANUARY, 1964

TABLE 68

STATION	TIME	TEMP	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL
GRAND BAHAMA I.	126.0N, 78.2W	75.0W								

	hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	CNT	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	UG	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
f6F2	MED	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	CNT	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	UG	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
f6F	MED	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	CNT	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	UG	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
M3000F2	MED	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	CNT	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	UG	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
f6 FI	MED	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	CNT	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	UG	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
f6E	MED	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	CNT	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	UG	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
f6E	MED	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	CNT	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	UG	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
f6E	MED	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	CNT	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	UG	36	48	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
f6Ea	MED	31	28	31	23	24	25	22	19	23	28	31	33	34	33	32	29	27	22	31	30	27	30	25	32
	CNT	15	16	19	25	20	20	17	26	31	31	31	31	31	31	31	31	31	23	22	23	20	17	16	
	UG	15	16	19	25	20	20	17	26	31	31	31	31	31	31	31	31	31	23	22	23	20	17	16	

JANUARY, 1964

TABLE 2

		MANTUA, LUTON												TIME LOG											
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
to F2	MED	2	2	0	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
H F2	MED	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
H F	MED	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
M3000F2	MED	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
to F1	MED	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
to E	MED	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
H E	MED	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	54	51	
to Ea	MED	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	5		
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	5		
	LO	2	2	2	2	18	2	48	64	74	74	74	77	77	74	74	74	74	74	74	58	56	5		

SWEEP 0.25 MC TO 20.0 MC IN 27 SECONDS.

TABLE 72

[illegible]

WITH 1.0 MC TO 25.0 MC IN 27 SECONDS.

200

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

TABLE 1

[illegible]

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

14. 70

WHITE SANDS, NEW MEXICO

	hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fo F2	MED	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	ENT	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	LO	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
	LO	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
	LO	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
N F2	MED	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
	ENT	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
	LO	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78
	LO	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
	LO	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
N F	MED	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
	ENT	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
	LO	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78
	LO	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
	LO	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
M3000F2	MED	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	ENT	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	LO	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
	LO	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
	LO	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
fo F1	MED	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
	ENT	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
fo E	MED	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	ENT	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
N E	MED	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
	ENT	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	67	69	71	73	75
fo E ₃	MED	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
	ENT	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

DECEMBER, 1963

TABLE 80

H. A. N. C. A. T. O. P. E. S.

[illegible]

SLEEP 0.25 MC TO 20.0 MC IN 1 MILLISEC 40 SECONDS

100

100

UNIVERSITY OF CALIFORNIA - RIVERS

hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
16F2	MED	U	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	25	22	20	22	21	17	14	19	31	26	48	51	27	48	43	47	32	27	50	34	30	23
	CO	30	25	22	24	24	20	19	12	33	44	52	49	54	53	47	46	39	27	23	30	30	29	29
	LO	19	16	19	20	20	12	12	13	16	26	37	41	46	43	43	38	30	22	17	21	21	21	21
16F2	MED	U	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	25	22	20	22	21	17	14	19	31	26	48	51	27	48	43	47	32	27	50	34	30	23
	CO	30	25	22	24	24	20	19	12	33	44	52	49	54	53	47	46	39	27	23	30	30	29	29
	LO	19	16	19	20	20	12	12	13	16	26	37	41	46	43	43	38	30	22	17	21	21	21	21
16F1	MED	U	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	25	22	20	22	21	17	14	19	31	26	48	51	27	48	43	47	32	27	50	34	30	23
	CO	30	25	22	24	24	20	19	12	33	44	52	49	54	53	47	46	39	27	23	30	30	29	29
	LO	19	16	19	20	20	12	12	13	16	26	37	41	46	43	43	38	30	22	17	21	21	21	21
16E	MED	U	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	25	22	20	22	21	17	14	19	31	26	48	51	27	48	43	47	32	27	50	34	30	23
	CO	30	25	22	24	24	20	19	12	33	44	52	49	54	53	47	46	39	27	23	30	30	29	29
	LO	19	16	19	20	20	12	12	13	16	26	37	41	46	43	43	38	30	22	17	21	21	21	21
16E	MED	U	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	25	22	20	22	21	17	14	19	31	26	48	51	27	48	43	47	32	27	50	34	30	23
16E	MED	U	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	25	22	20	22	21	17	14	19	31	26	48	51	27	48	43	47	32	27	50	34	30	23
16E	MED	U	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	25	22	20	22	21	17	14	19	31	26	48	51	27	48	43	47	32	27	50	34	30	23
16E	MED	U	J	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	CNT	3	25	22	20	22	21	17	14	19	31	26	48	51	27	48	43	47	32	27	50	34	30	23

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS.

DECEMBER 1983

TABLE 4 79

2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 26

GROUP	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
f6F2	MED	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	CNT	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	DO	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
f6F2	MED	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	CNT	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	DO	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
f6F	MED	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	CNT	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	DO	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
M3000/F2	MED	370	368	360	350	338	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	0
	CNT	370	368	360	350	338	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	0
	DO	370	368	360	350	338	320	300	280	260	240	220	200	180	160	140	120	100	80	60	40	20	0	0
f6F1	MED	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	CNT	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	DO	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
f6E	MED	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	CNT	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	DO	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
f6E	MED	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	CNT	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	DO	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

DECEMBER, 1943

TABLE 81

BOGOTÁ, COLOMBIA

(4.2N, 74.2W)

TIME 75.0W

HOUR	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
fF2	31	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
MED	21	18	23	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128
CNT	21	18	23	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128
LO	57	47	30	28	37	52	70	89	103	111	122	128	116	113	114	110	105	93	75	60	44	35	21	18
h'F2	32	36	40	43	47	51	55	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123
MED	22	27	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137
CNT	22	27	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137
LO	58	48	31	29	38	53	71	90	104	112	123	129	117	114	115	111	106	94	78	61	45	36	22	19
h'F	33	37	41	45	49	53	57	61	65	69	73	77	81	85	89	93	97	101	105	109	113	117	121	125
MED	23	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138
CNT	23	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138
LO	59	49	32	30	39	54	72	91	105	113	124	130	118	115	116	112	107	95	79	62	46	37	23	20
h'F1	34	38	42	46	50	54	58	62	66	70	74	78	82	86	90	94	98	102	106	110	114	118	122	126
MED	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139
CNT	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139
LO	60	50	33	31	40	55	73	92	106	114	125	131	119	116	117	113	108	96	80	63	47	38	24	21
h'E	35	39	43	47	51	55	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127
MED	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
CNT	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140
LO	61	51	34	32	41	56	74	93	107	115	126	132	120	117	118	114	109	97	81	64	48	39	25	22
h'Ea	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128
MED	26	31	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141
CNT	26	31	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141
LO	62	52	35	33	42	57	75	94	108	116	127	133	121	118	119	115	110	98	82	65	49	40	26	23
h'Ea	37	41	45	49	53	57	61	65	69	73	77	81	85	89	93	97	101	105	109	113	117	121	125	129
MED	27	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137	142
CNT	27	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137	142
LO	63	53	36	34	43	58	76	95	109	117	128	134	122	119	120	116	111	99	83	66	50	41	27	24
h'Ea	38	42	46	50	54	58	62	66	70	74	78	82	86	90	94	98	102	106	110	114	118	122	126	130
MED	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138	143
CNT	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138	143
LO	64	54	37	35	44	59	77	96	110	118	129	135	123	120	121	117	112	100	84	67	51	42	28	25
h'Ea	39	43	47	51	55	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131
MED	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139	144
CNT	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139	144
LO	65	55	38	36	45	60	78	97	111	119	130	136	124	121	122	118	113	101	85	68	52	43	29	26
h'Ea	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132
MED	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
CNT	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
LO	66	56	39	37	46	61	79	98	112	120	131	137	125	122	123	119	114	102	86	69	53	44	30	27
h'Ea	41	45	49	53	57	61	65	69	73	77	81	85	89	93	97	101	105	109	113	117	121	125	129	133
MED	31	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141	146
CNT	31	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141	146
LO	67	57	40	38	47	62	80	99	113	121	132	138	126	123	124	120	115	103	87	70	54	45	31	28
h'Ea	42	46	50	54	58	62	66	70	74	78	82	86	90	94	98	102	106	110	114	118	122	126	130	134
MED	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137	142	147
CNT	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137	142	147
LO	68	58	41	39	48	63	81	100	114	122	133	139	127	124	125	121	116	104	88	71	55	46	32	29
h'Ea	43	47	51	55	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135
MED	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138	143	148
CNT	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138	143	148
LO	69	59	42	40	49	64	82	101	115	123	134	140	128	125	126	122	117	105	89	72	56	47	33	30
h'Ea	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136
MED	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139	144	149
CNT	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139	144	149
LO	70	60	43	41	50	65	83	102	116	124	135	141	129	126	127	123	118	106	90	73	57	48	34	31
h'Ea	45	49	53	57	61	65	69	73	77	81	85	89	93	97	101	105	109	113	117	121	125	129	133	137
MED	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
CNT	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
LO	71	61	44	42	51	66	84	103	117	125	136	142	130	127	128	124	119	107	91	74	58	49	35	32
h'Ea	46	50	54	58	62	66	70	74	78	82	86	90	94	98	102	106	110	114	118	122	126	130	134	138
MED	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141	146	151
CNT	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141	146	151
LO	72	62	45	43	52	67	85	104	118	126	137	14												

TABLE 86

		1400-04N, 105.34W												TIME 105-00											
		BOULDER, COLORADO																							
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	25	25	25	26	25	24	33	42	47	48	52	54	56	54	56	55	51	56	52	48	39	34	28	26
	Q10	27	27	27	28	28	28	36	46	52	54	56	57	57	57	57	56	52	50	46	37	32	26	22	
	LO	22	22	22	23	21	21	22	28	37	42	44	46	48	51	51	50	51	49	43	36	31	27	24	22
f2F2	MED									324	362	356	340	335	330	331	310	280							
	Q10									311	349	342	326	320	314	308	288	262							
	LO									280	307	321	310	314	307	294	294	278							
f2F1	MED	295	288	280	281	279	270	249	221	210	200	190	190	200	236	217	216	250	284	233	220	170	250	271	284
	Q10	318	310	330	296	300	315	276	232	219	207	197	197	205	250	232	225	259	257	268	276	270	255	252	
	LO	270	274	285	271	267	246	228	210	200	190	188	181	190	195	200	205	212	227	230	210	223	230	250	260
M3000F2	MED	300	300	304	305	310	312	314	330	325	308	303	305	310	312	310	320	338	335	332	328	320	305	300	
	Q10	312	317	318	325	316	314	324	323	324	324	324	324	324	324	324	324	324	324	324	324	324	324	324	
	LO	295	282	300	307	305	300	321	322	325	326	327	320	278	300	295	330	305	322	330	320	310	310	300	288
foF1	MED									370	340	410	415	420	425	410			2	1					
	CNT									3	5	1	1	15	16	14	12								
foE	MED									225	265	260	332	315	320	310	300	280	255	215		1			
	CNT									8	9	16	16	18	22	19	21	18	16	1					
fE	MED									167	110	145	100	153	162	106	103	102	103	103	122	1	1		
	CNT									58	22	24	23	24	20	20	22	22	22	22	22	22	22	22	22
foA	MED	28	30	30			25	26	19	23	27	29	33	32	31	31	29	26	23	21	25	30	30	28	
	CNT	6	7	9	7		12	16	21	24	25	27	34	34	26	22	22	22	24	20	27	12	14	4	6

[illegible]

TABLE 88

[illegible]

BOGOTÁ, COLOMBIA													14.5N, 74.2E		TIME 75s								
HOUR		00	01	02	03	04	05	06	07	08	09	10	12	13	14	15	16	17	18	19	20	22	23
16F2	MED	48	57	64	71	73	74	76	77	77	76	74	80	104	124	124	124	124	124	124	124	124	124
	MOD	25	42	44	47	47	47	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
	LO	64	63	48	43	34	34	44	54	50	60	64	71	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
16F2	MED	41	42	38	35	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	MOD																						
	LO																						
16F2	MED																						
	MOD																						
	LO																						
16F	MED																						
	MOD																						
	LO																						
16G0001F2	MED	102	116	130	152	158	153	153	142	117	80	73	28	20	20	20	20	20	20	20	20	20	20
	MOD	32	34	37	35	36	37	34	32	33	33	33	28	28	28	28	28	28	28	28	28	28	28
	LO	208	118	112	112	112	121	121	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
16F1	MED																						
	MOD																						
	LO																						
16E	MED																						
	MOD																						
	LO																						
16E	MED																						
	MOD																						
	LO																						
16E1	MED	20	22	22	21	21	20	22	27	31	36	42	42	42	42	42	42	42	42	42	42	42	42
	MOD	12	6	11	17	16	16	21	28	29	42	28	23	26	25	18	25	26	24	17	25	28	21
	LO																						

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[illegible]

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TABLE 99

[illegible]

JULY 1962

TABLE 98

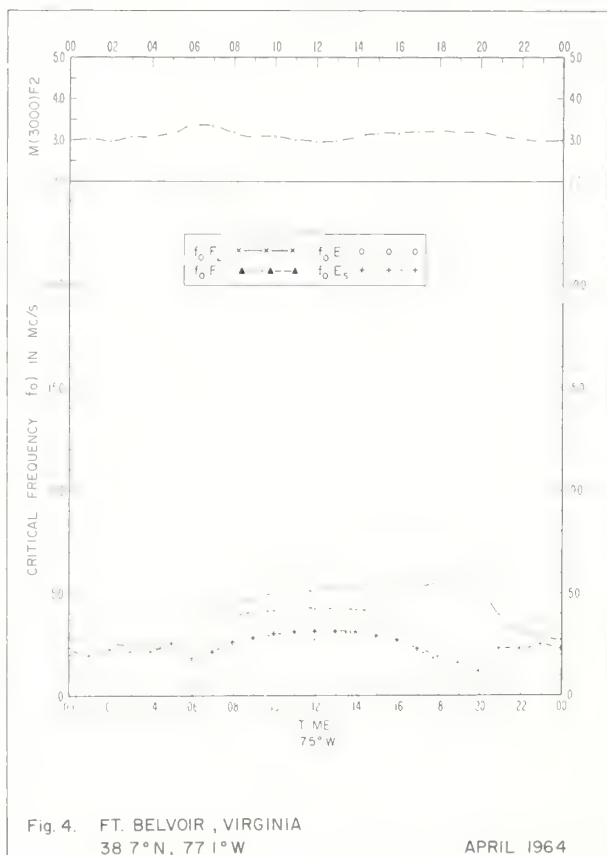
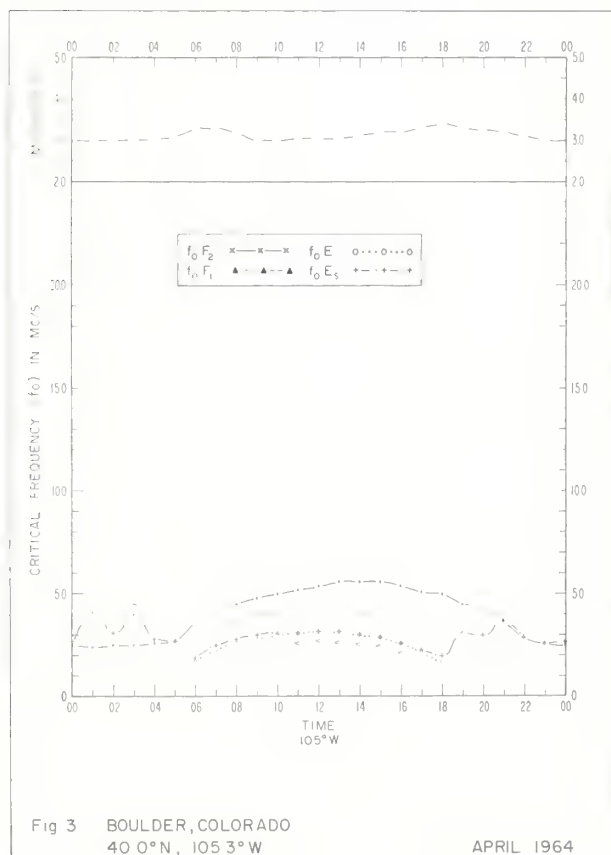
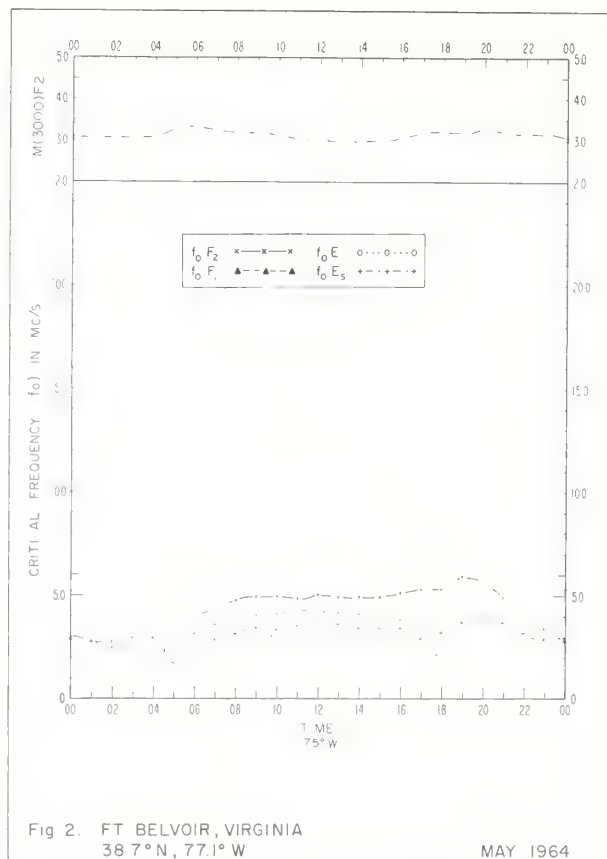
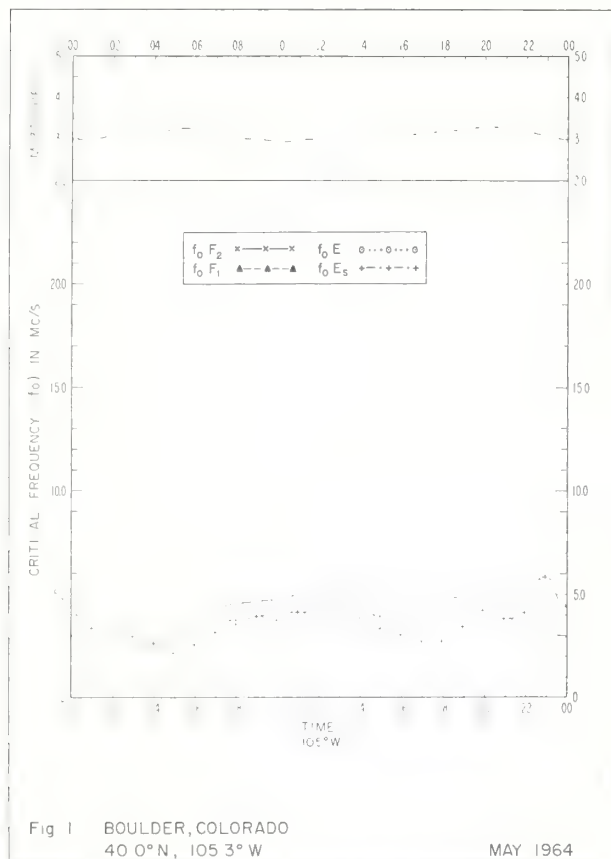
[illegible]

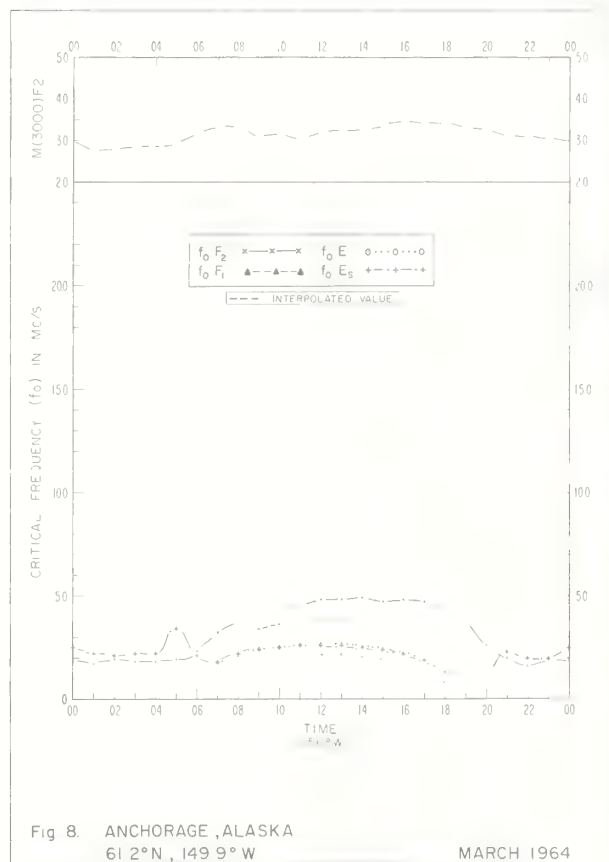
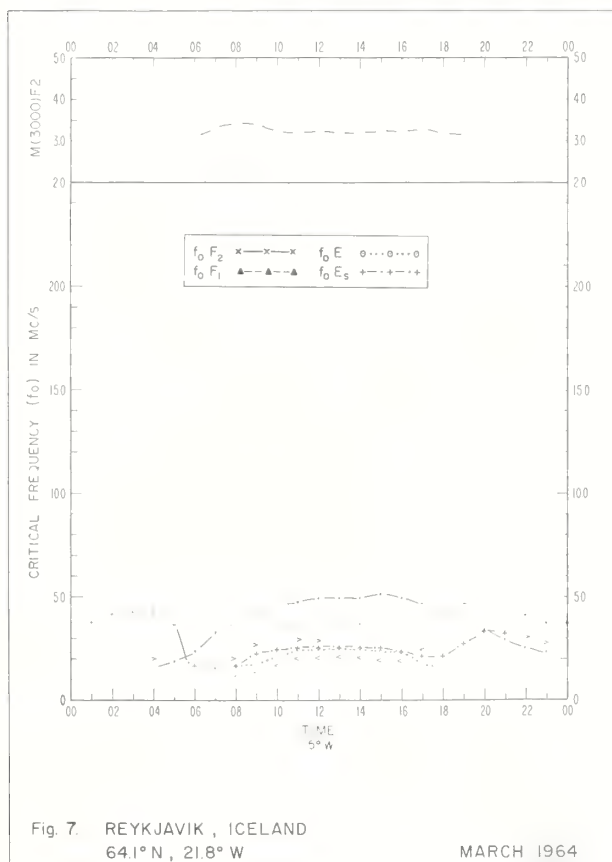
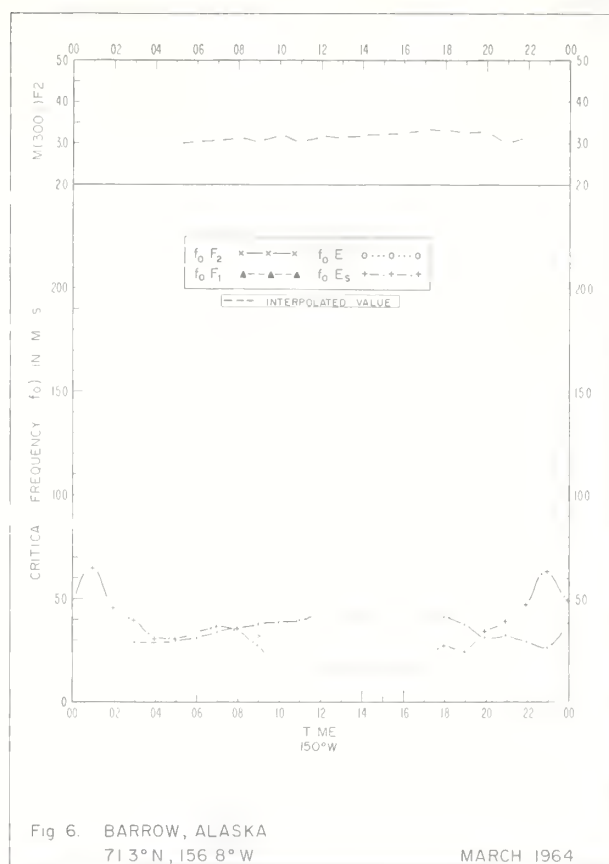
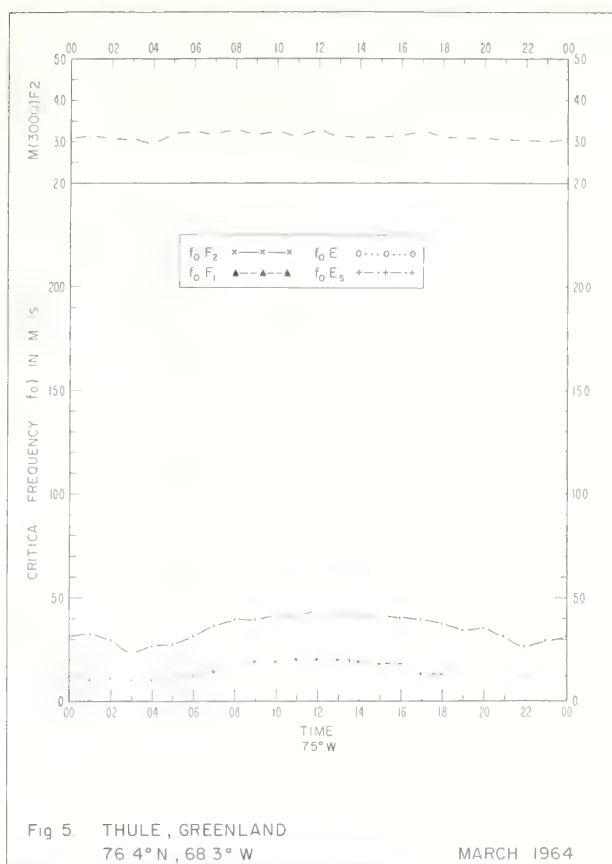
AUGUST, 1962

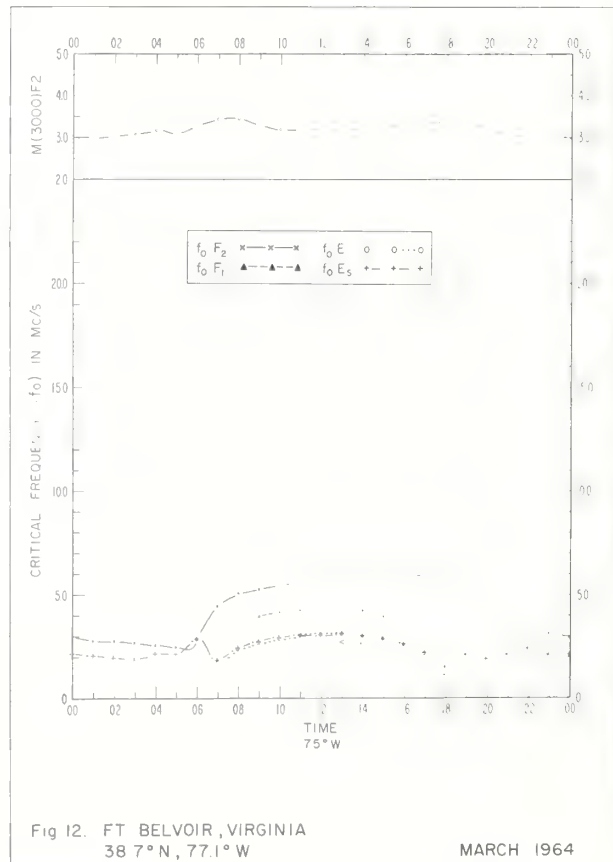
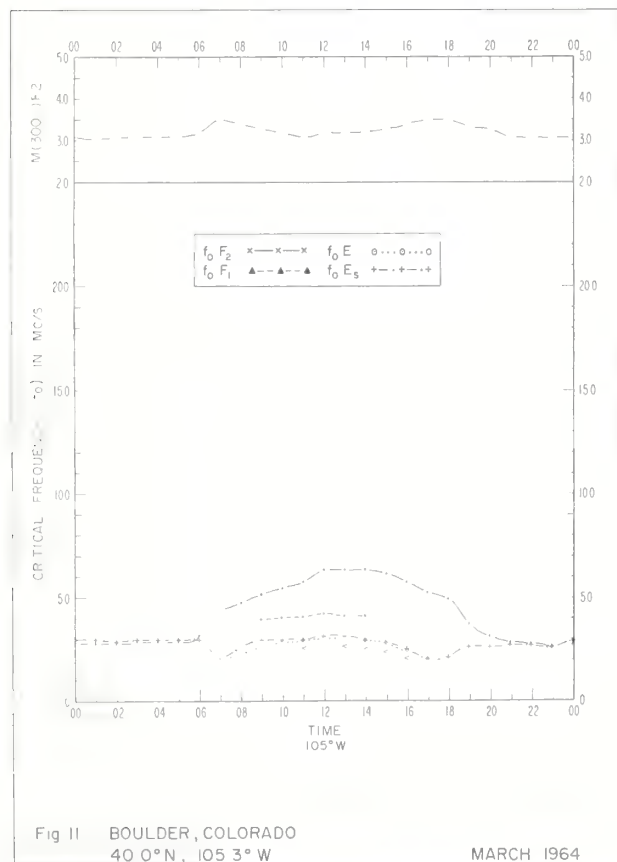
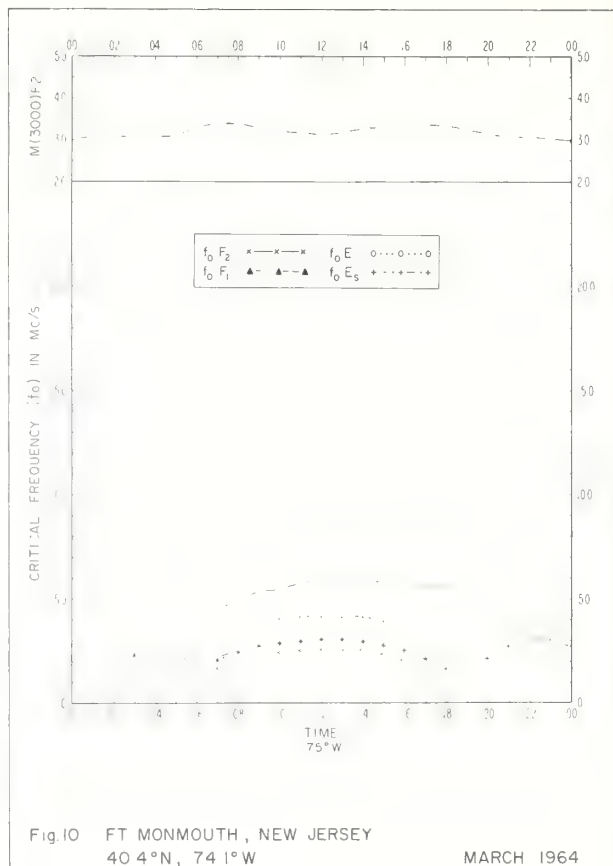
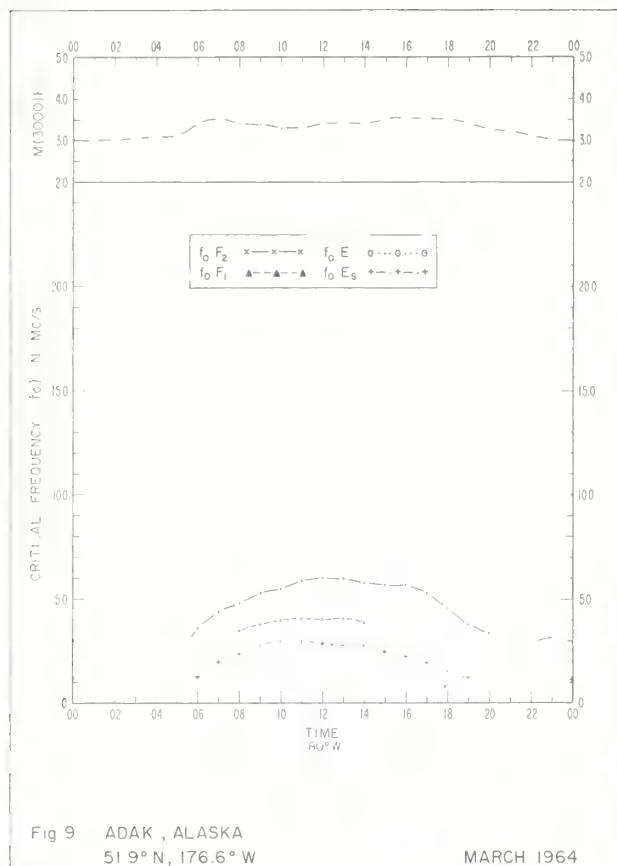
TABLE 100

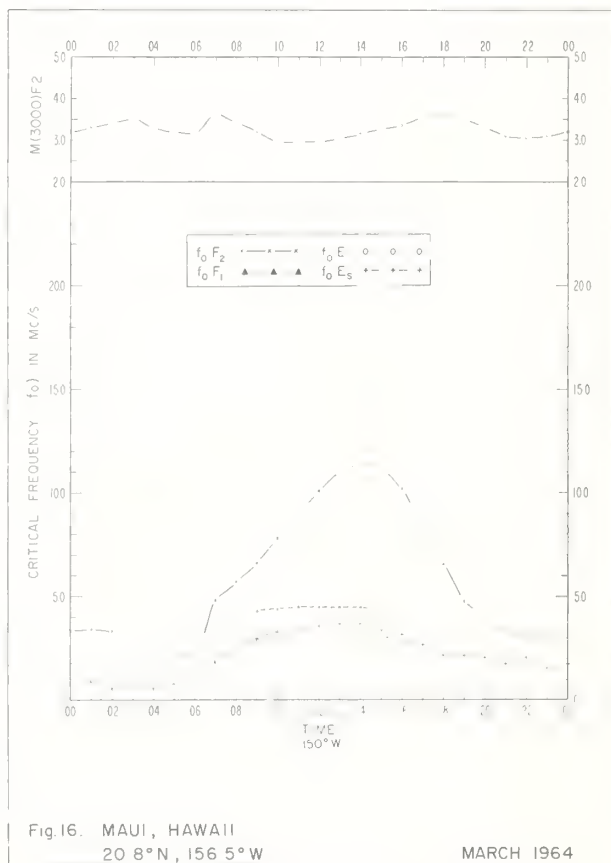
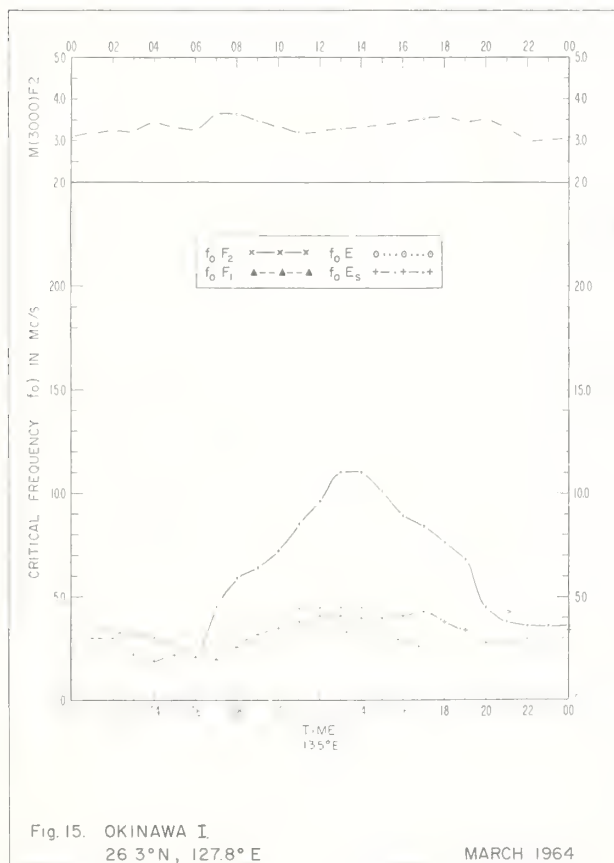
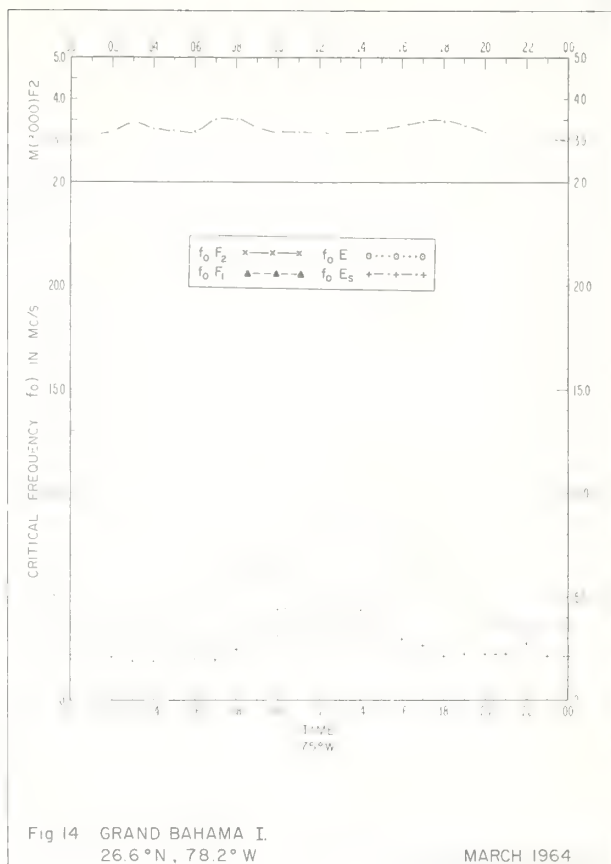
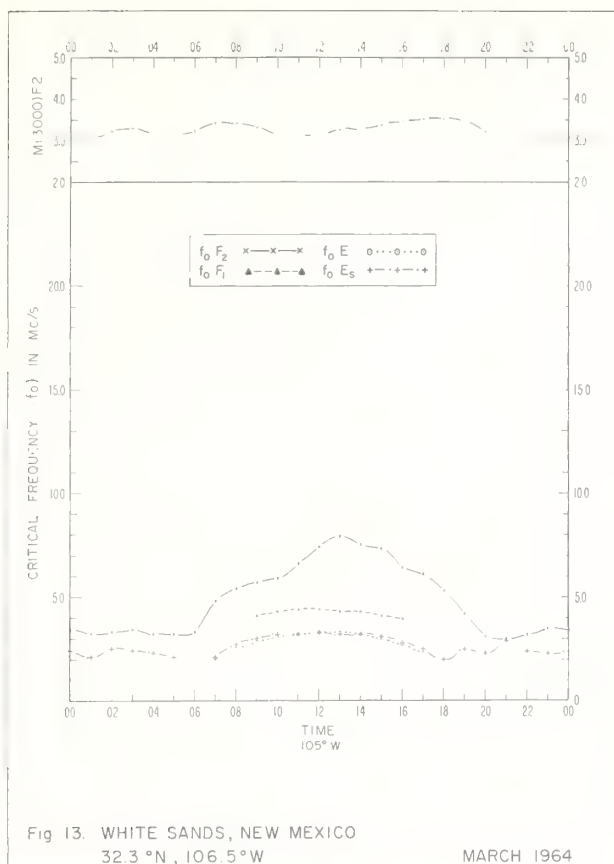
BYRD STATION, ANTARCTICA													180-05-130.0W										TIME LOG									
HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23							
f2F	MED					22	10	16		16	16	16	16	16	17	16	16	24														
	QD					24	1	10		27	28	17	16	17	16	17	16	30														
	LQ					16	1	14		16	17	16	17	16	17	16	17	18														
n2F	MED																															
	QD																															
	LQ																															
nF	MED	15	15	24	16	20	14	17	21	26	280	10	24		15	10	305	152	18	152	162	118	276	169								
	QD	8	11	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11								
	LQ	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11								
M3000F2	MED																															
	QD																															
	LQ																															
f6F1	MED																															
	QD																															
	LQ																															
f6E	MED																															
	QD																															
	LQ																															
n'E	MED																															
	QD																															
	LQ																															
f6A	MED	16	14	17	24	23	22	22	15	17	21	21	22	22	18	14	14	16	12	12	12	12	12	12	12							
	QD	16	14	17	24	23	22	22	15	17	21	21	22	22	18	14	14	16	12	12	12	12	12	12	12							
	LQ	16	14	17	24	23	22	22	15	17	21	21	22	22	18	14	14	16	12	12	12	12	12	12	12							

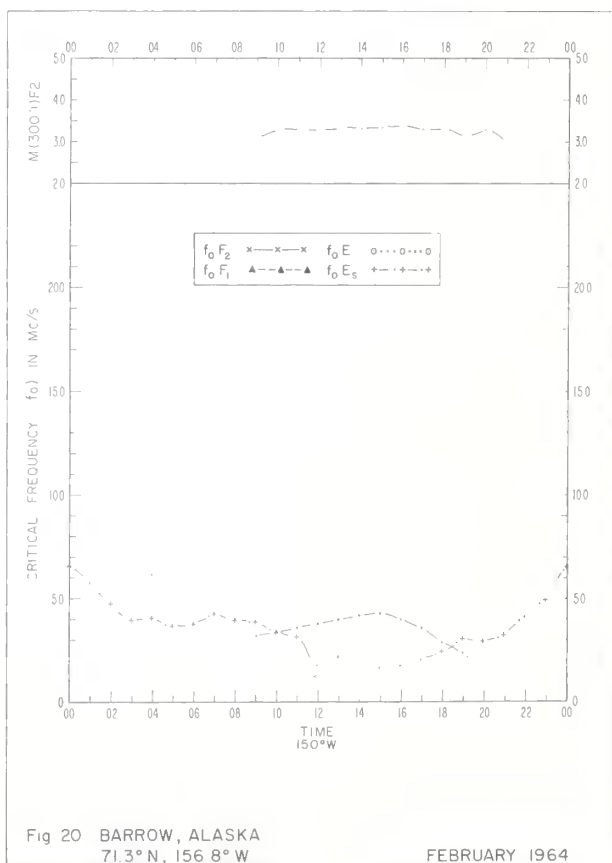
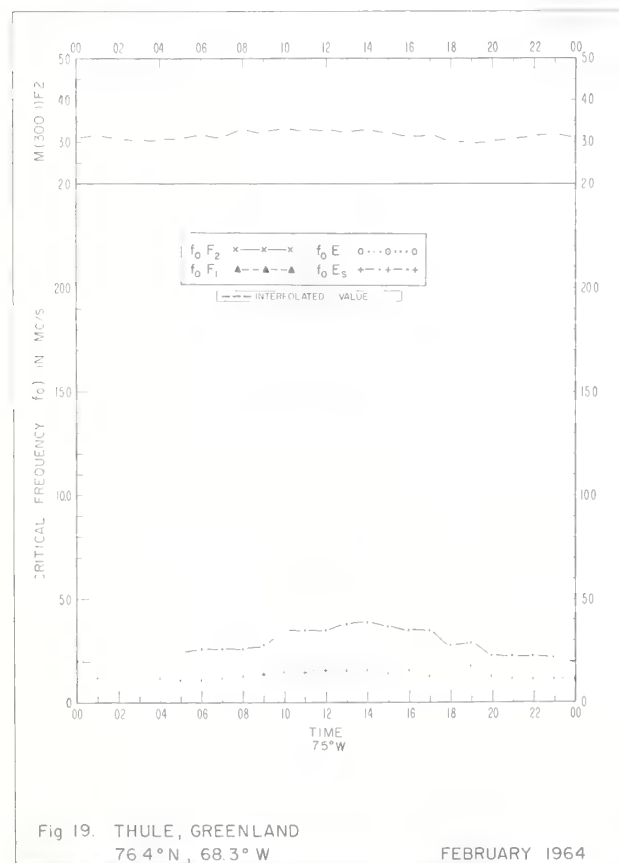
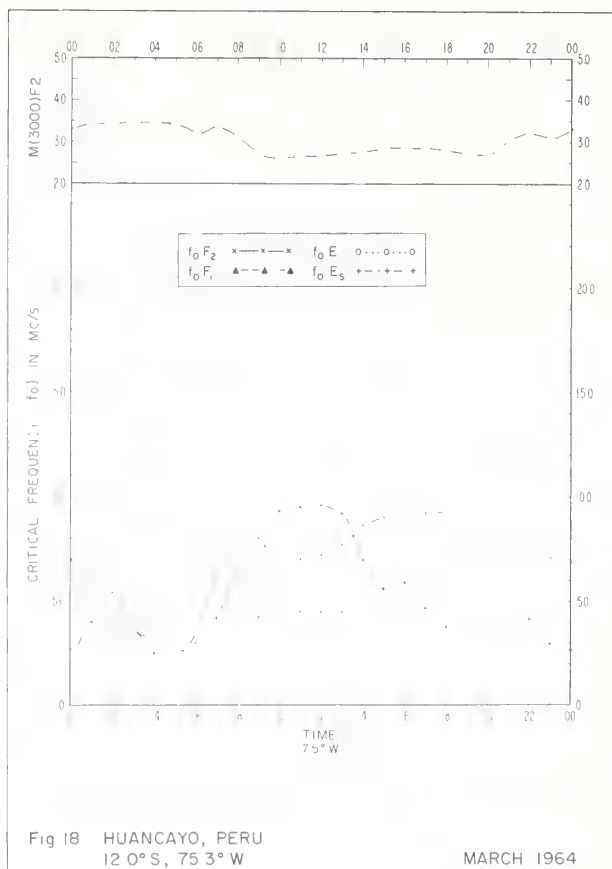
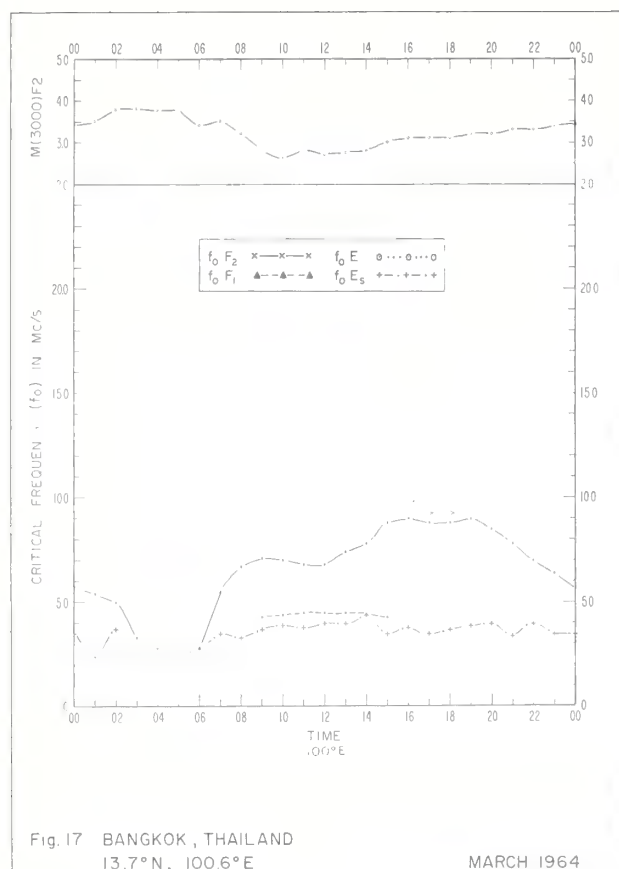
JUNE 4 1962

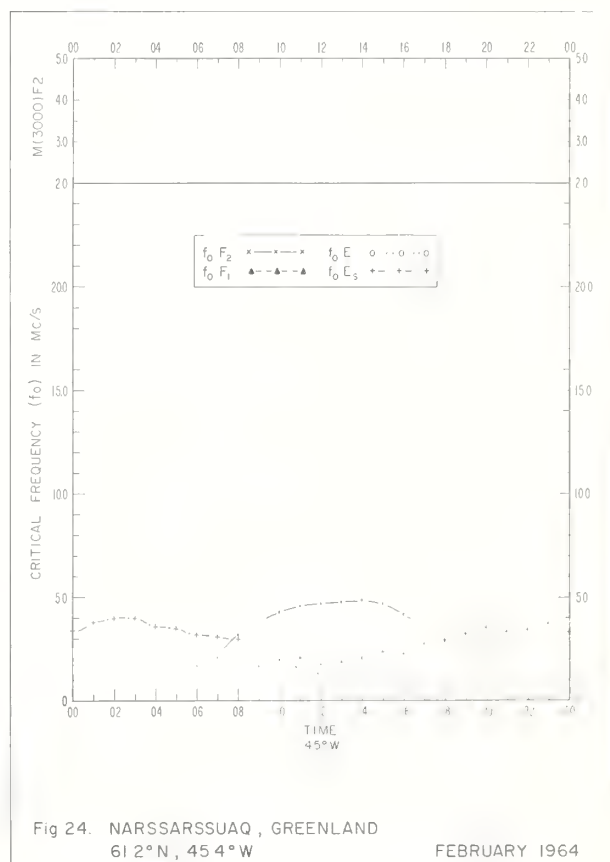
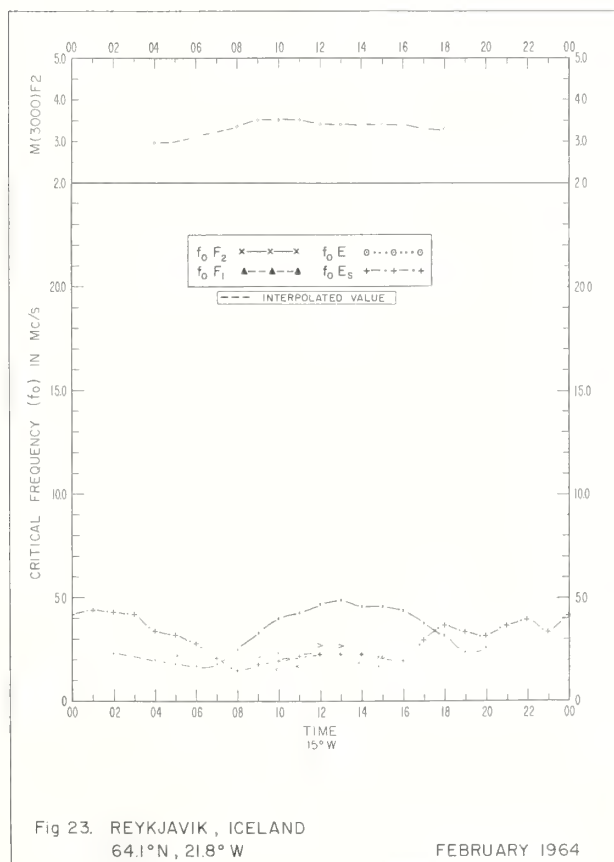
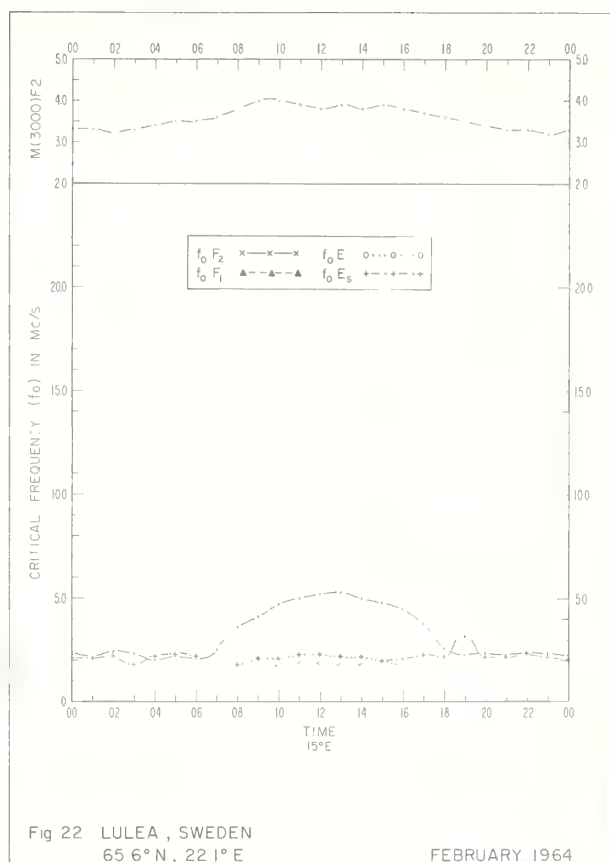
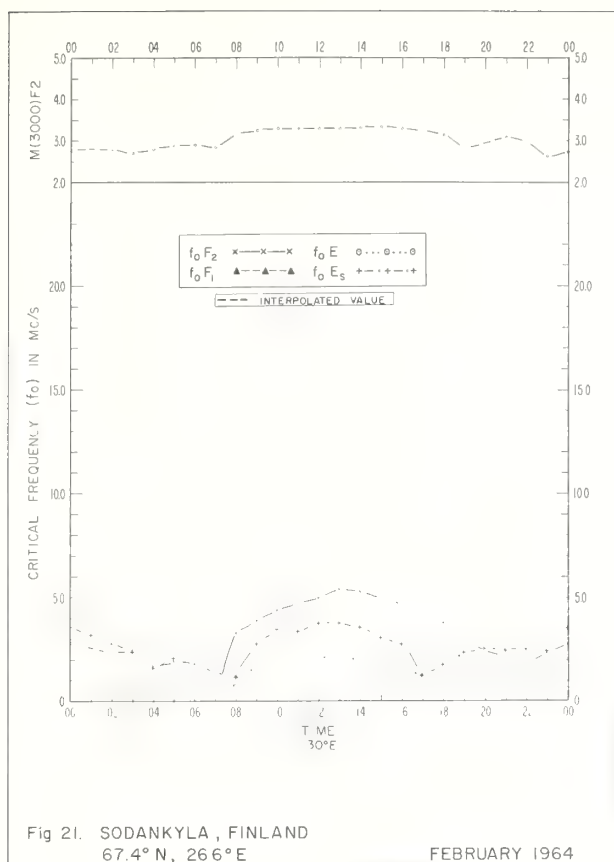


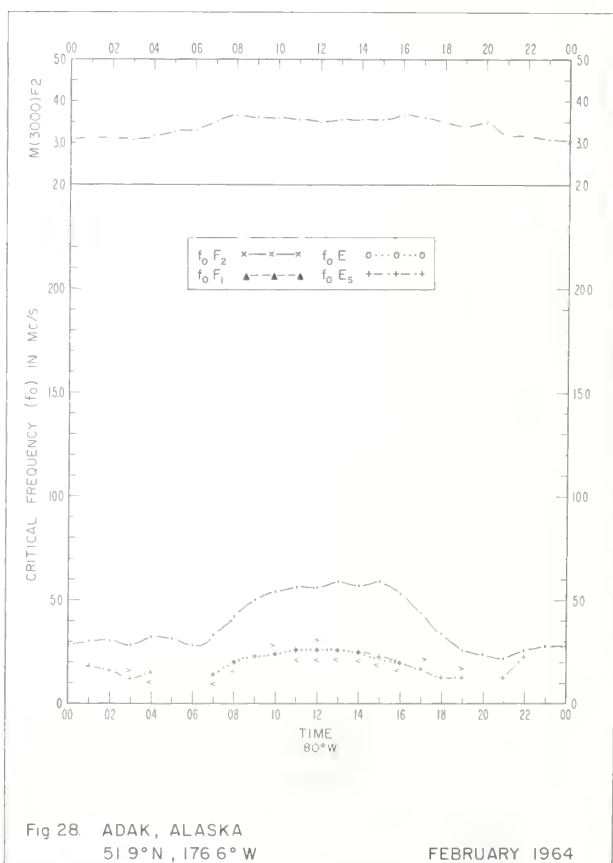
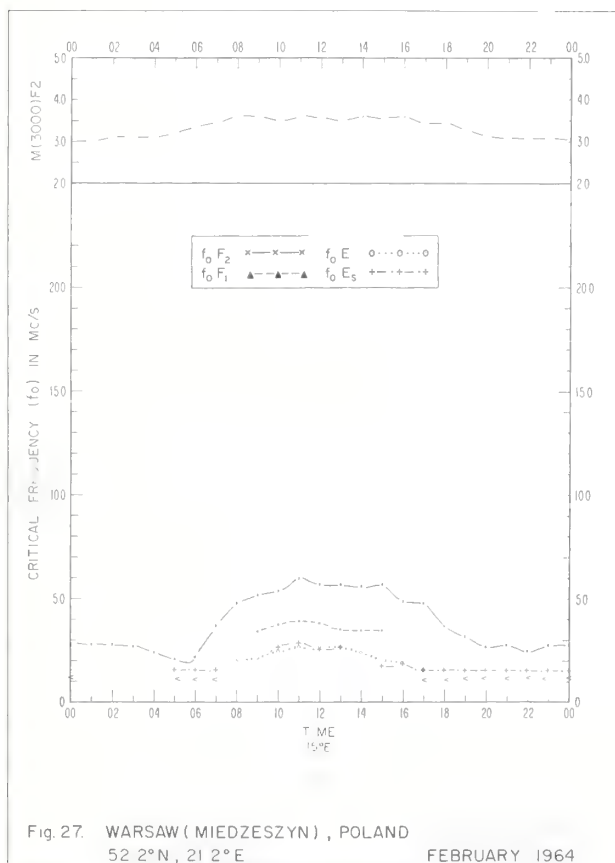
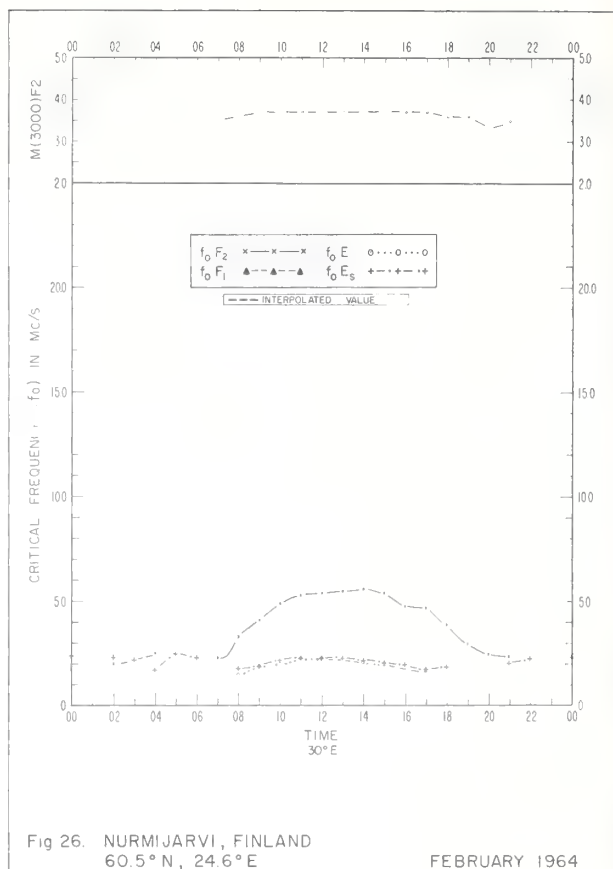
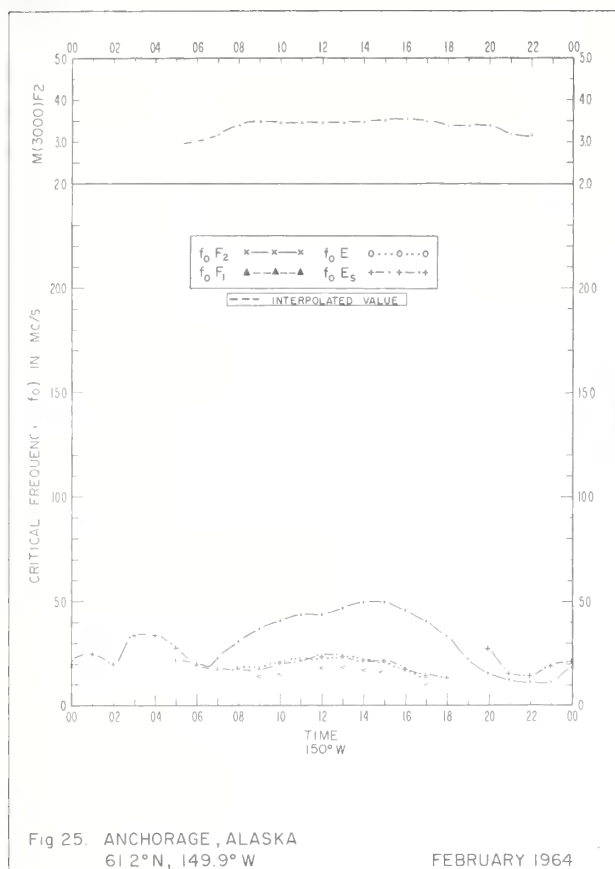


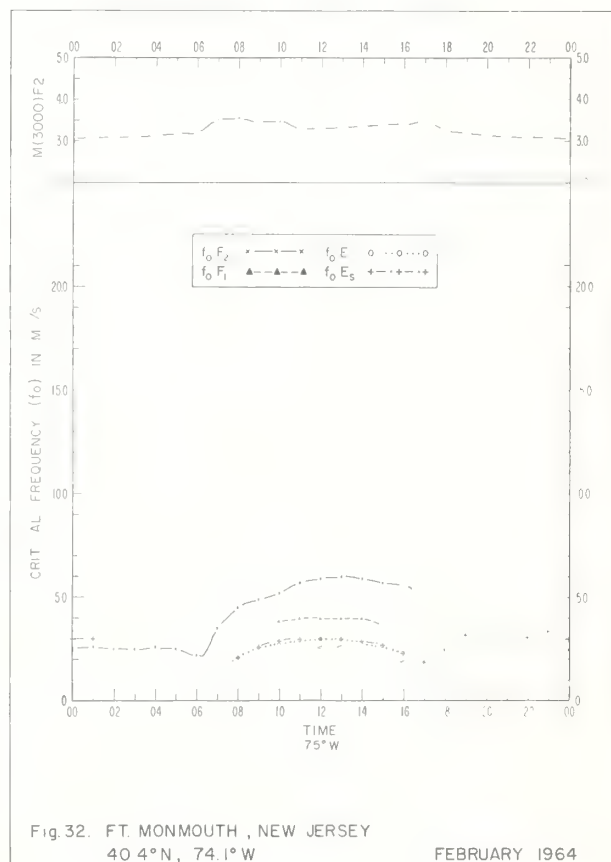
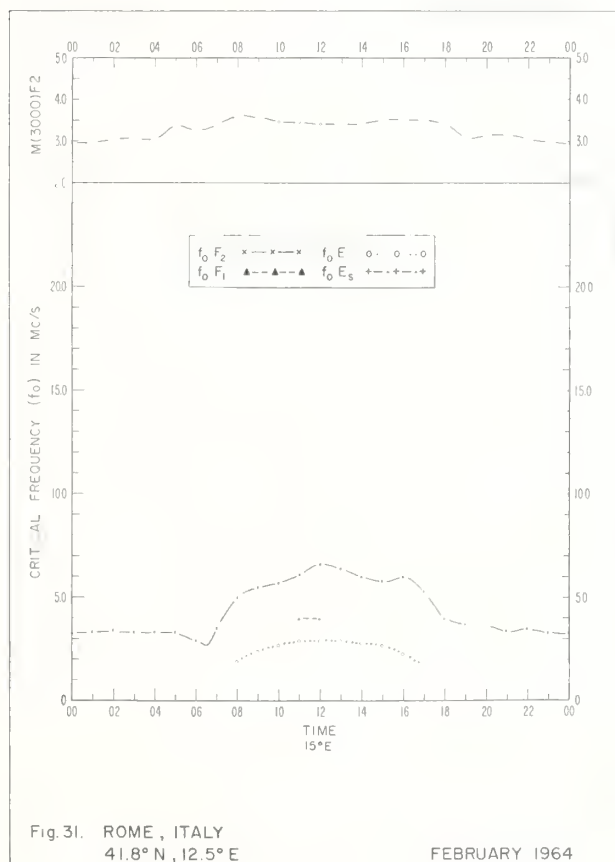
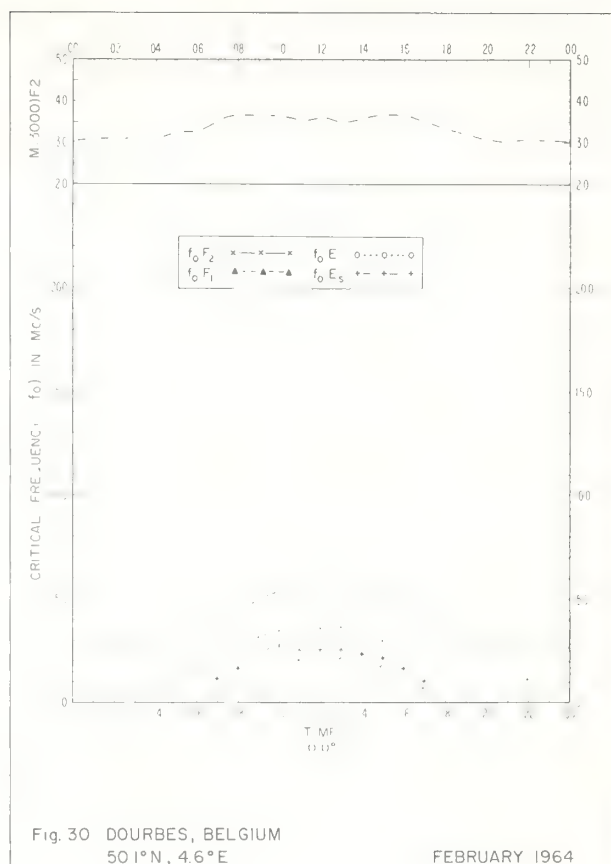
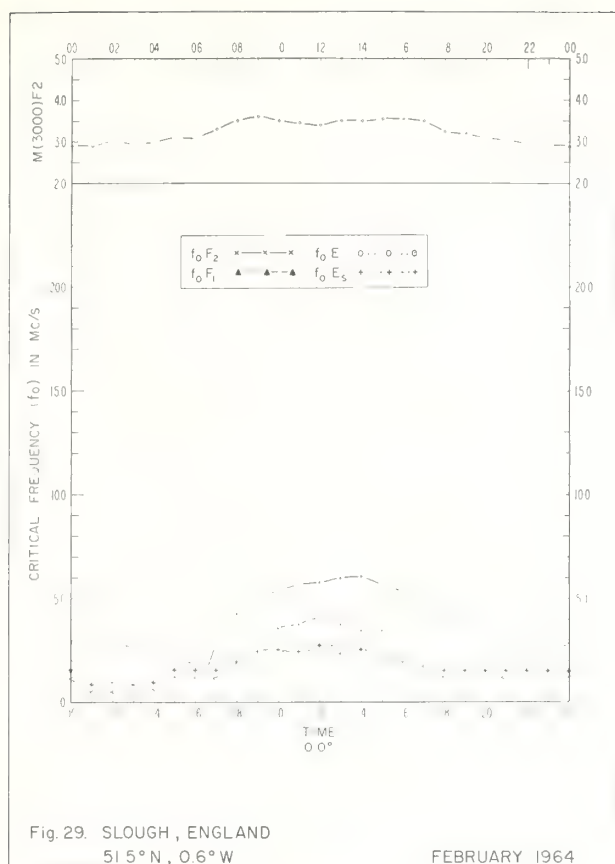


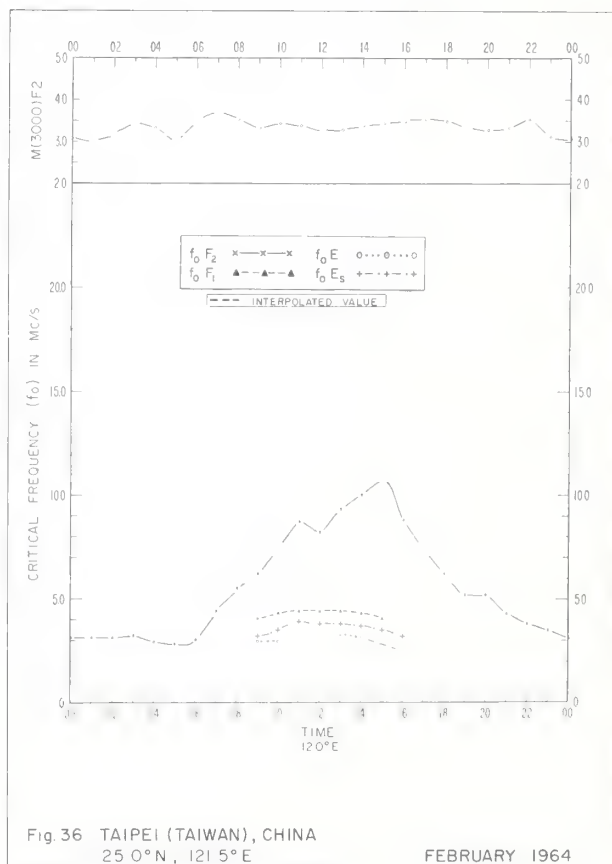
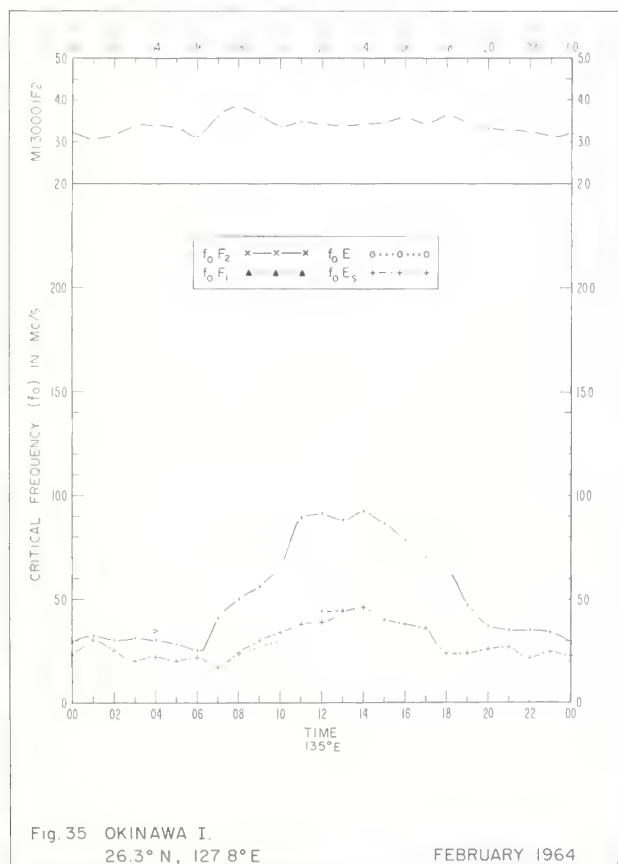
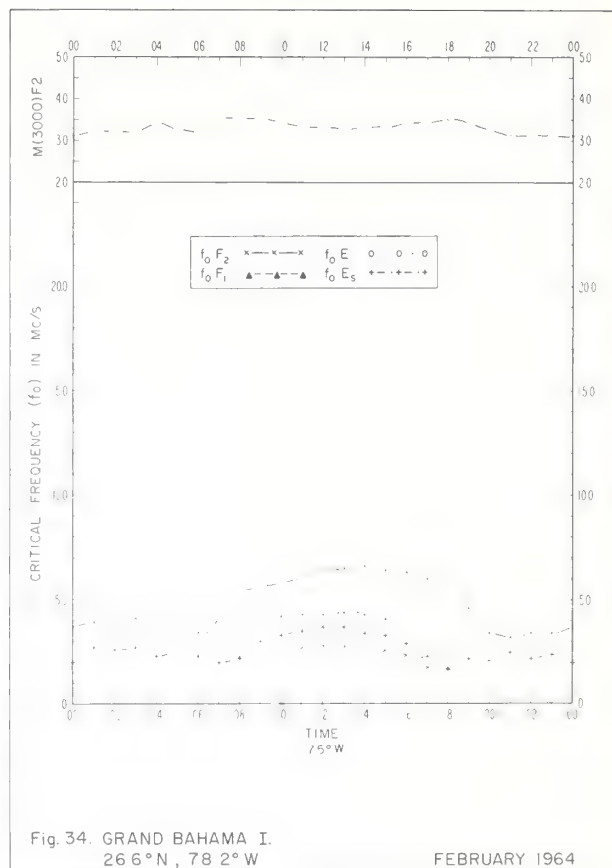
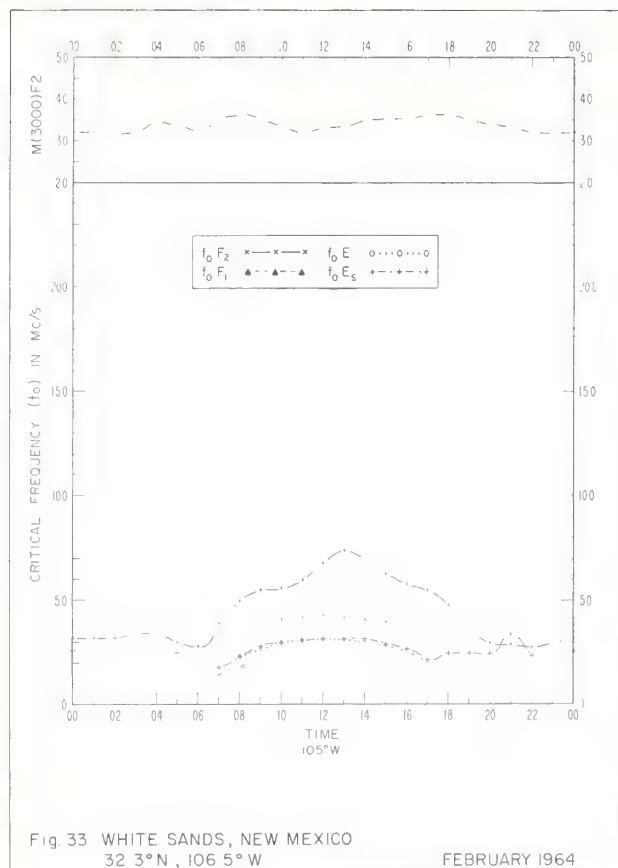












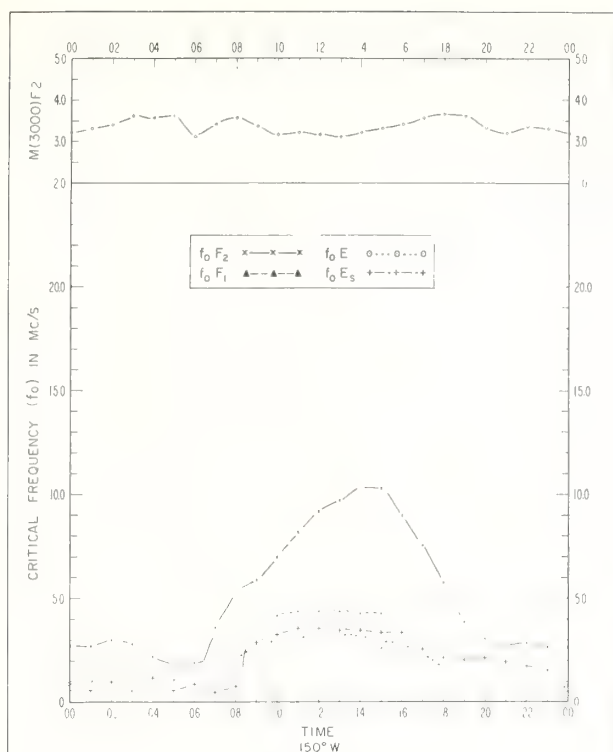


Fig. 37. MAUI, HAWAII
20.8°N, 156 5°W

FEBRUARY 1964

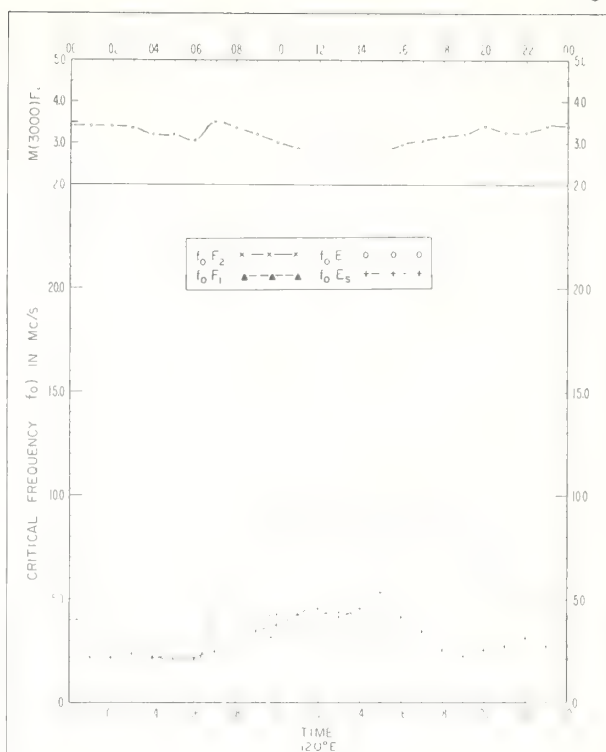


Fig. 38. MANILA, LUZON
14.7°N, 121 1°E

FEBRUARY 1964

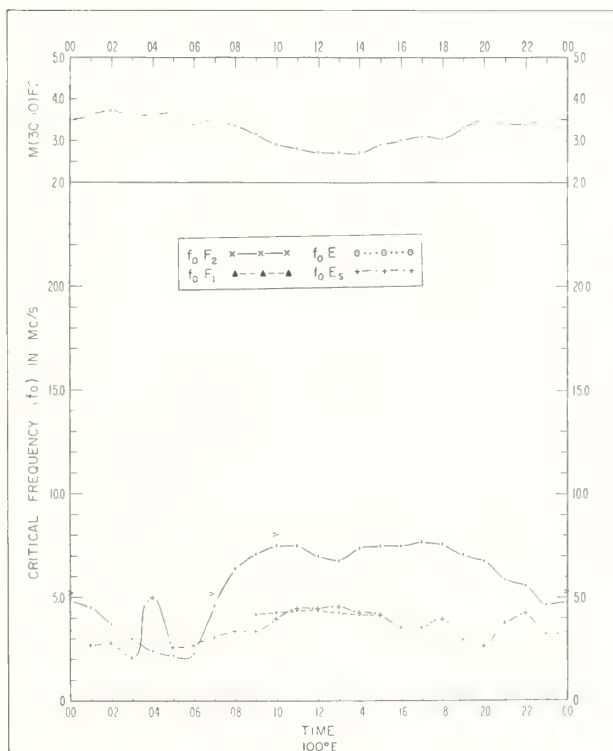


Fig. 39. BANGKOK, THAILAND
13.7°N, 100.6°E

FEBRUARY 1964

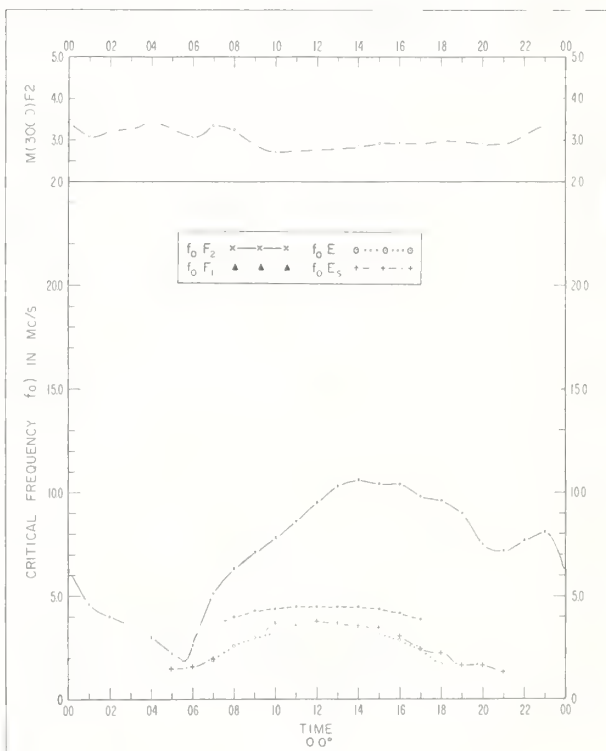
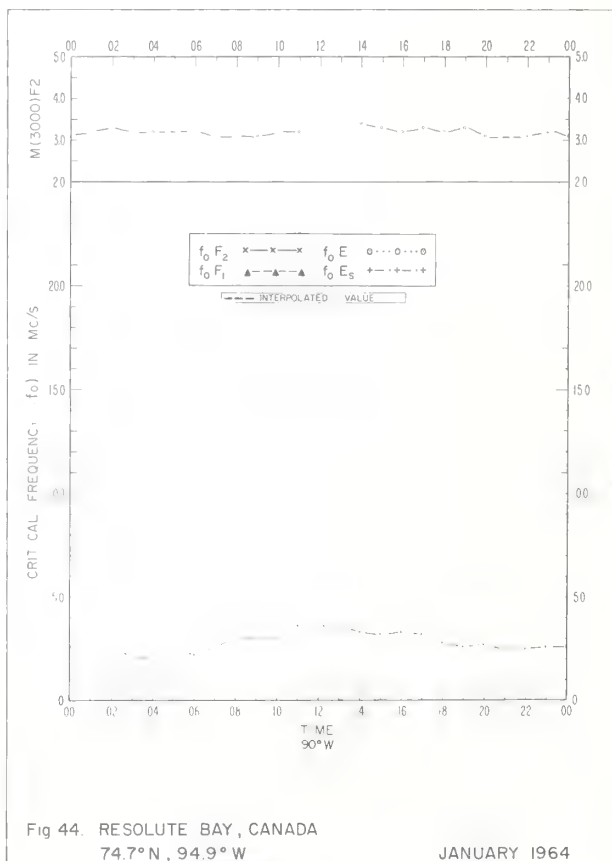
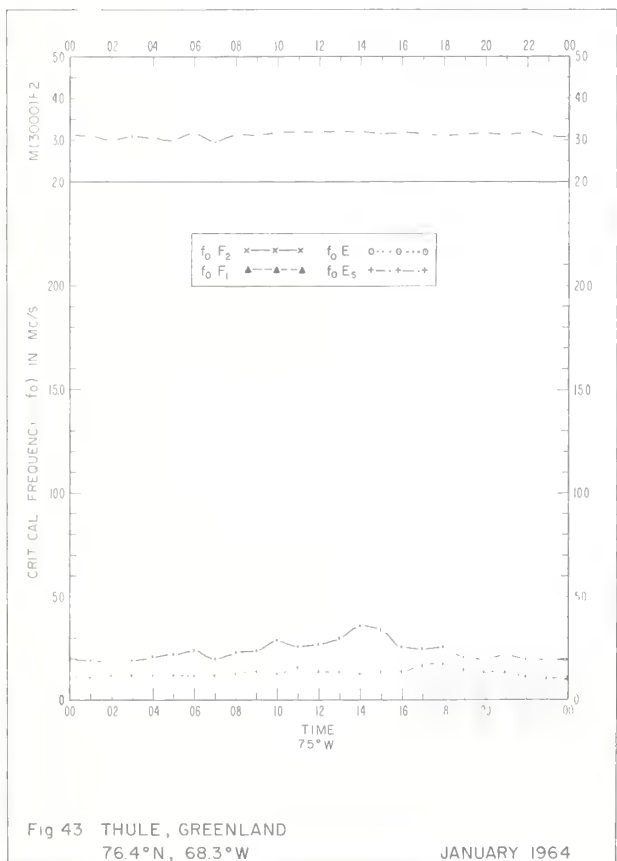
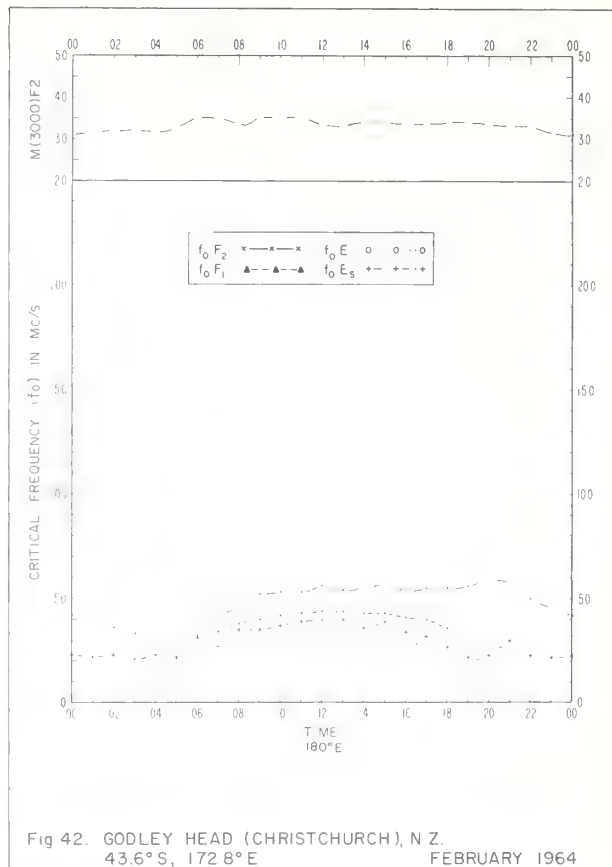
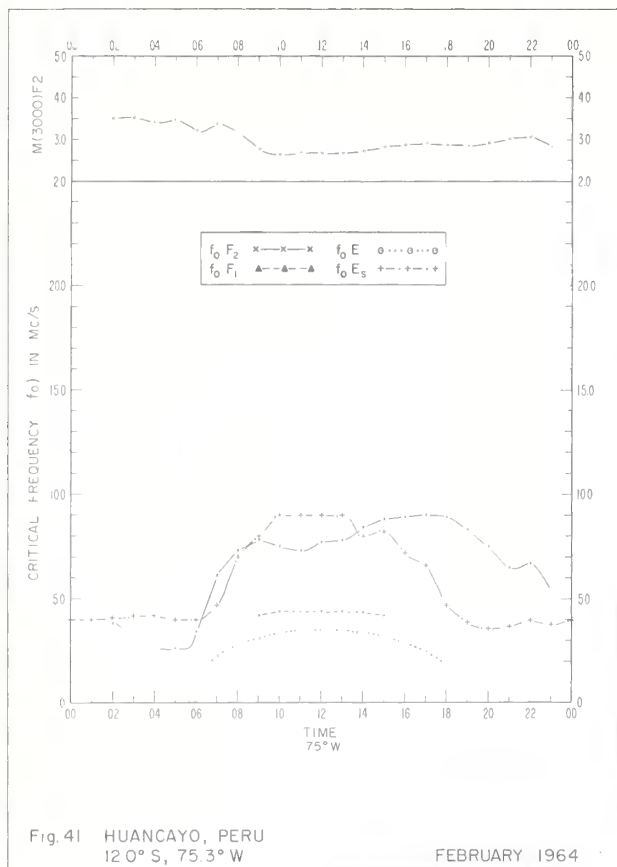
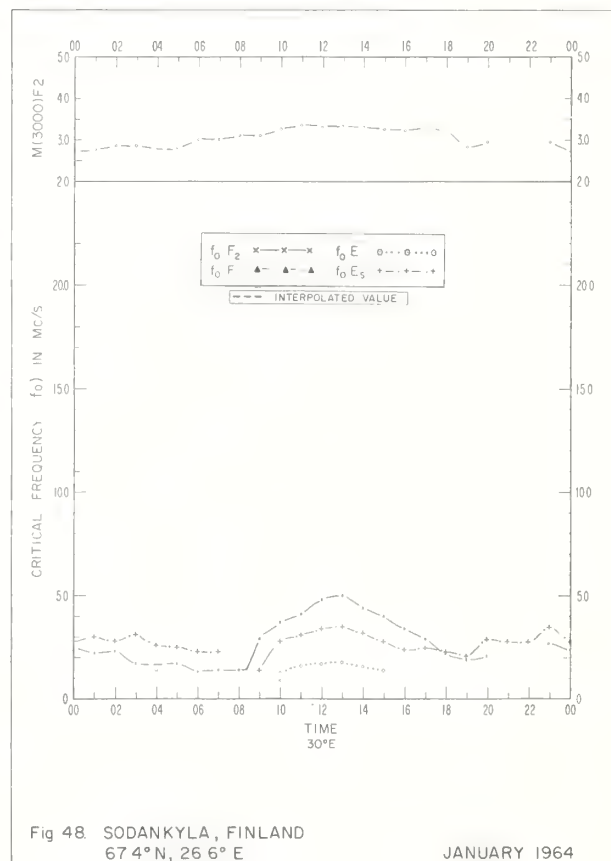
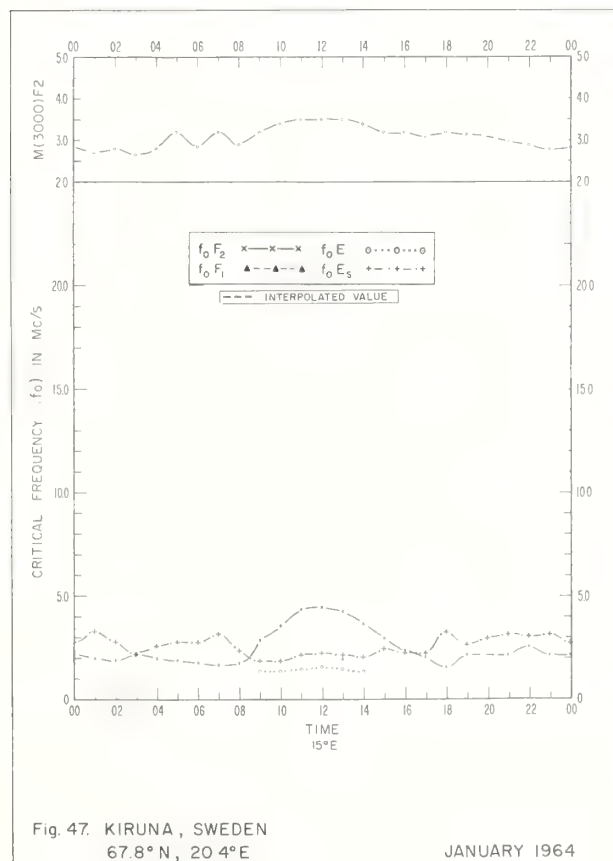
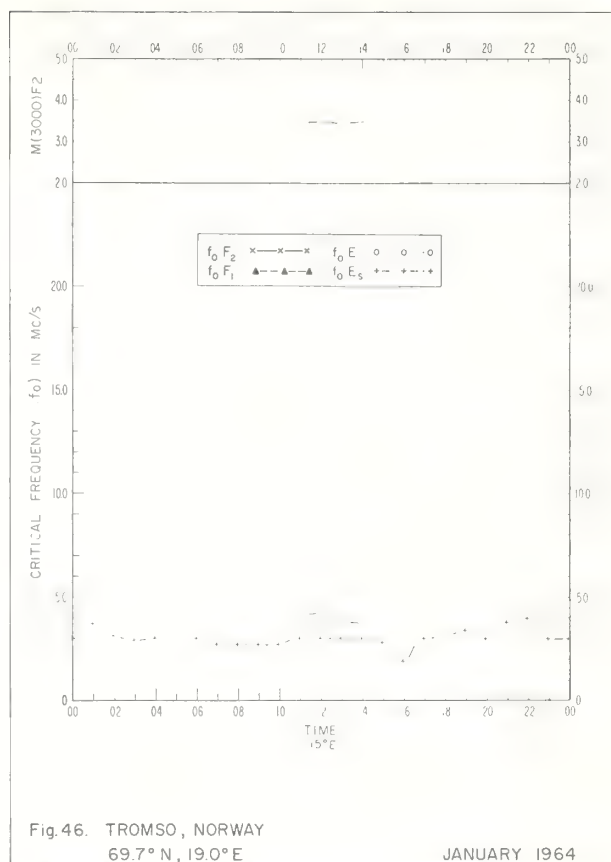
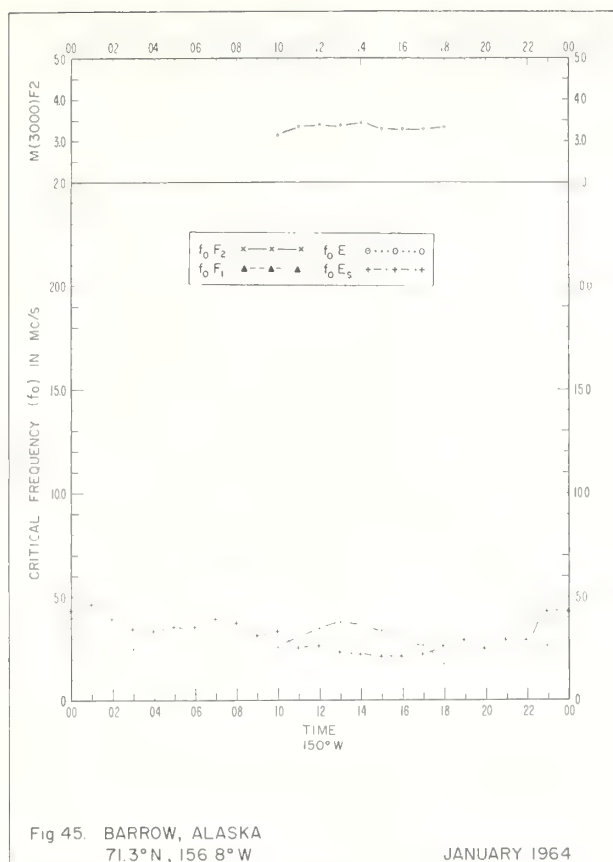
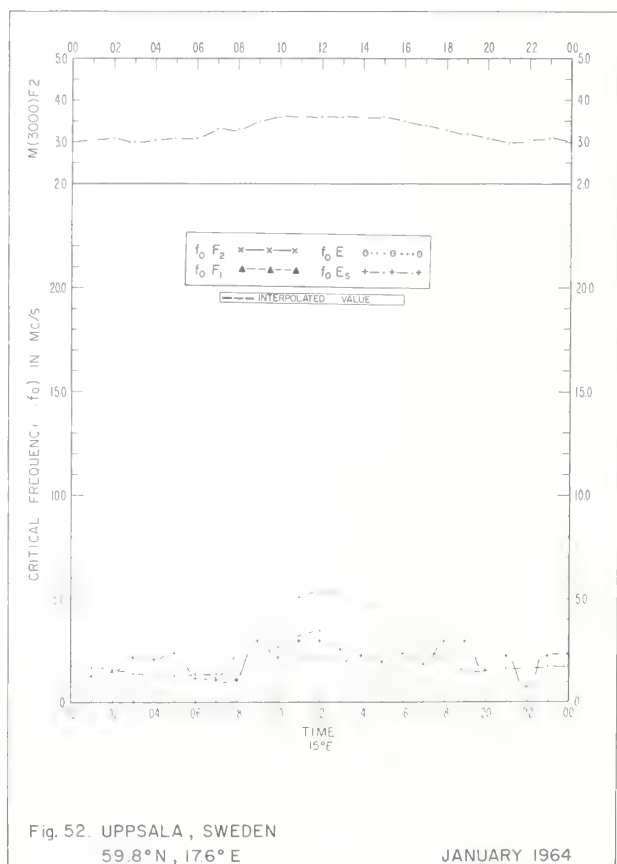
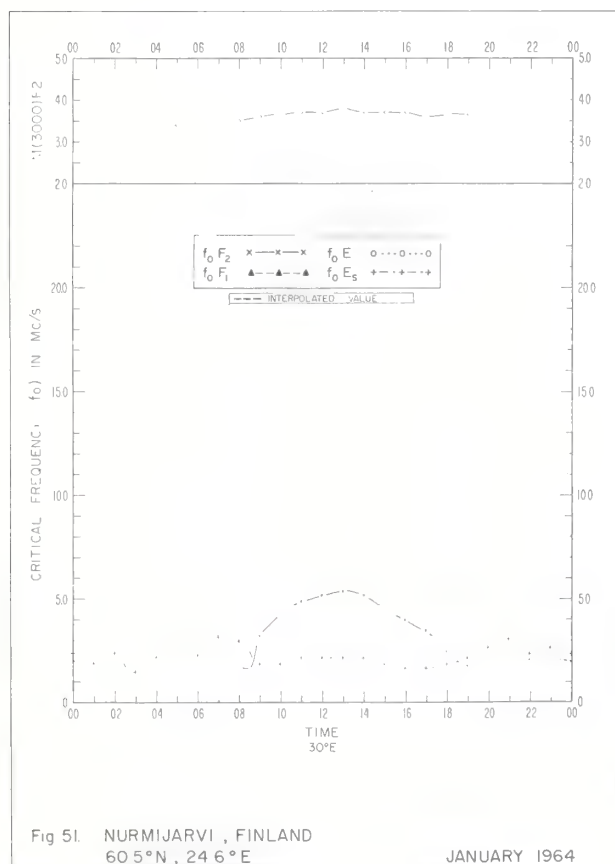
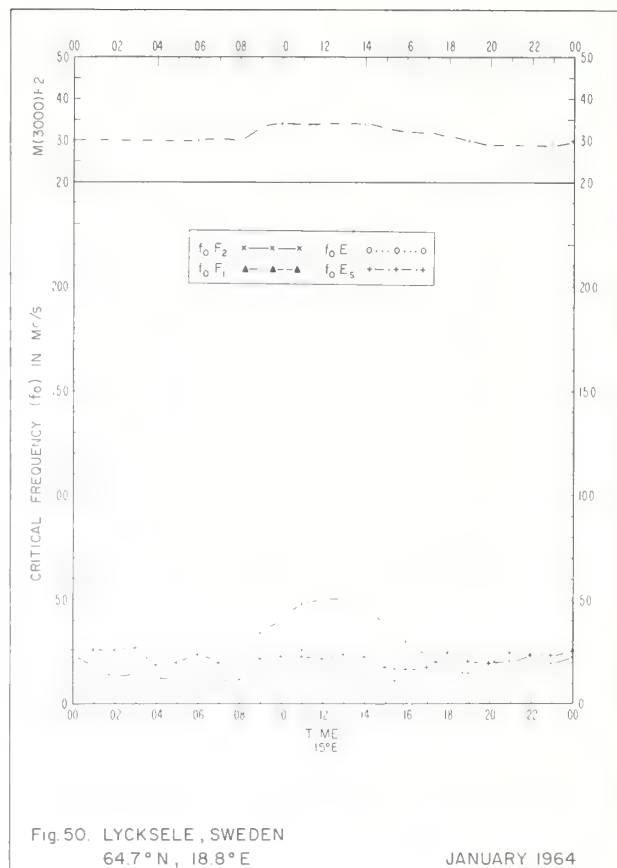
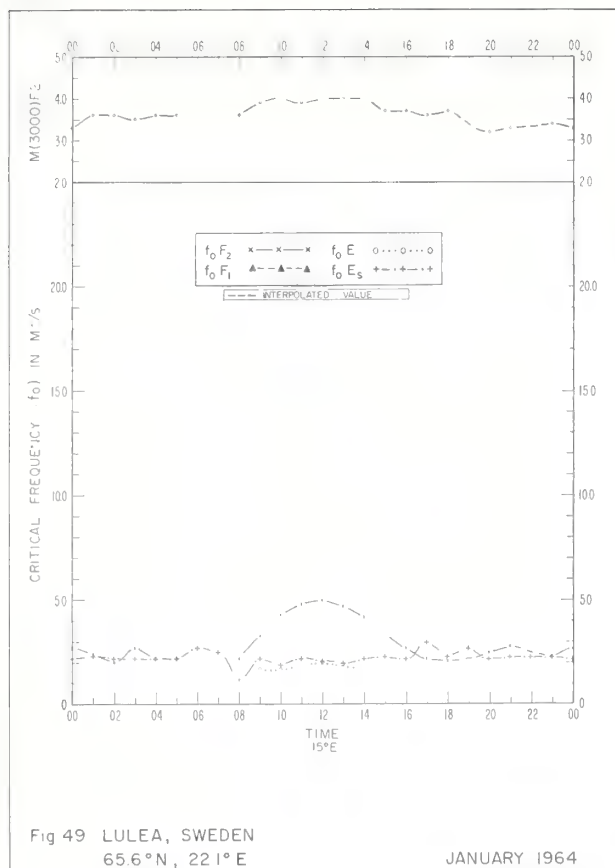


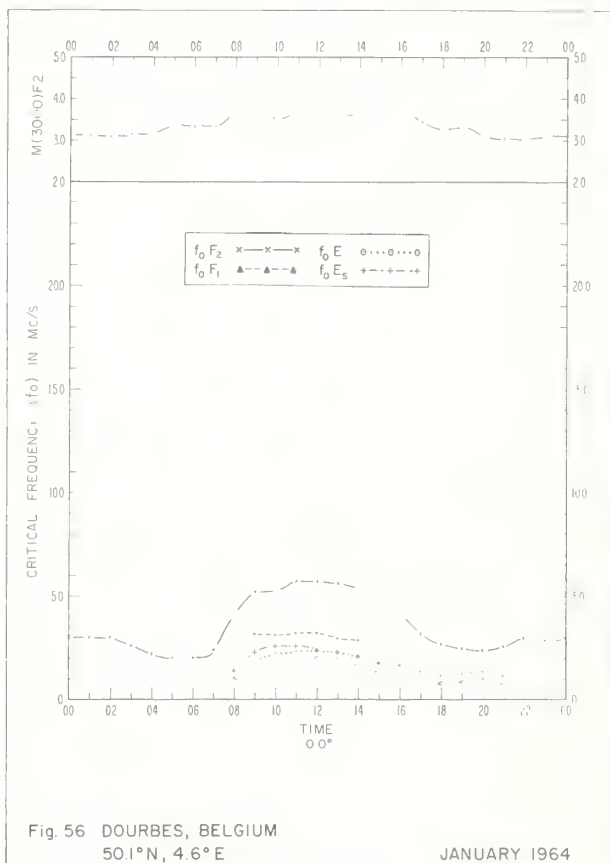
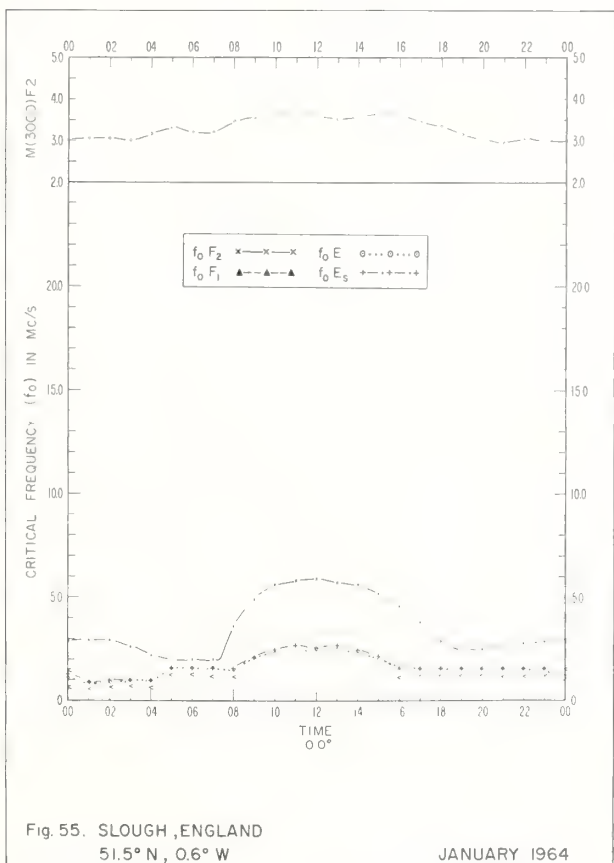
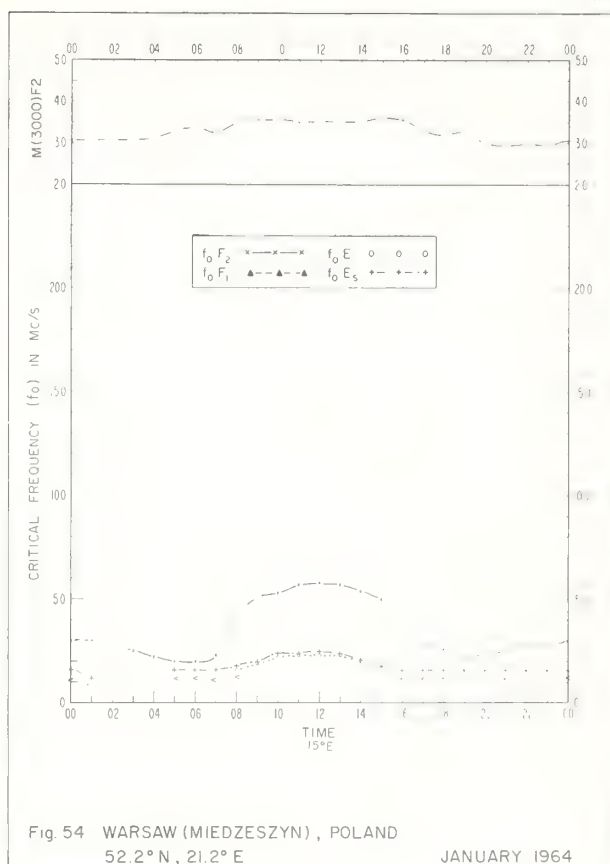
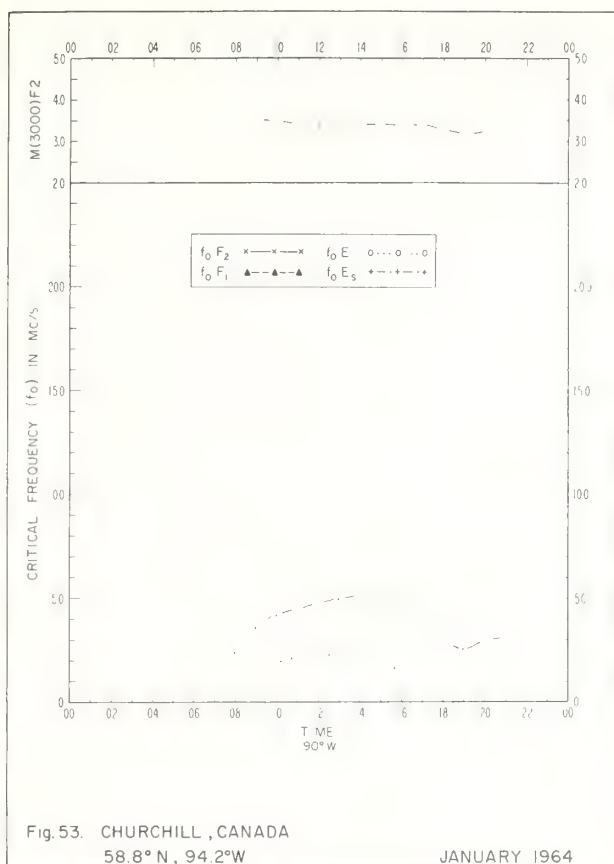
Fig. 40. LWIRO, CONGO
2 2°S, 28 8°E

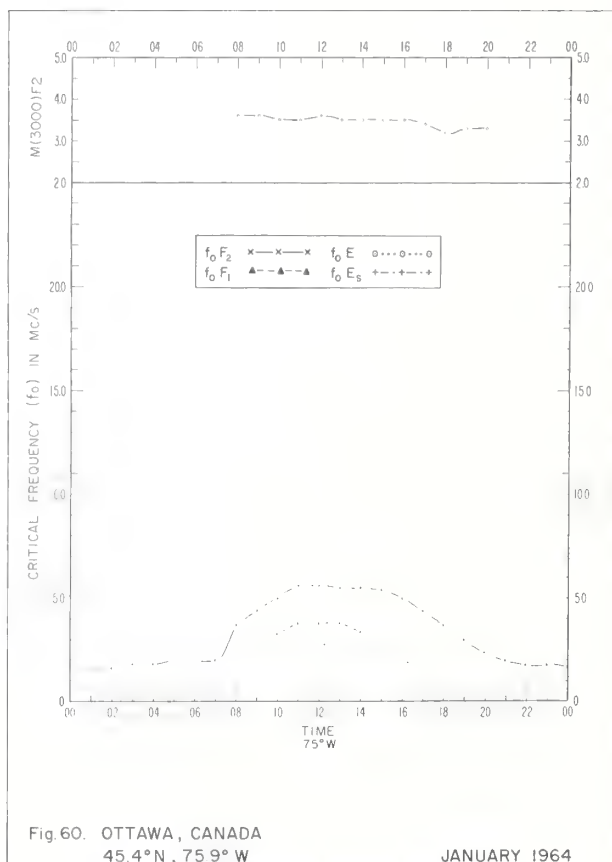
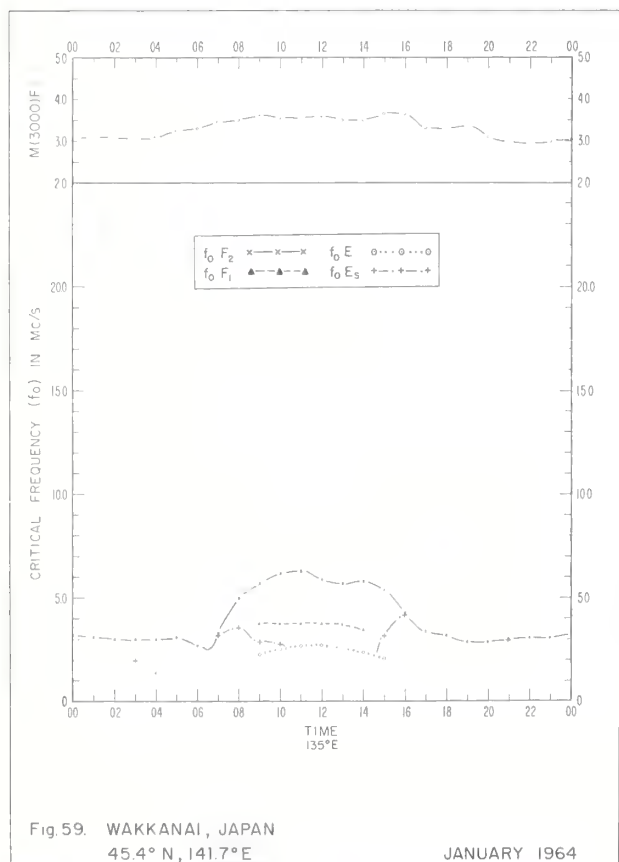
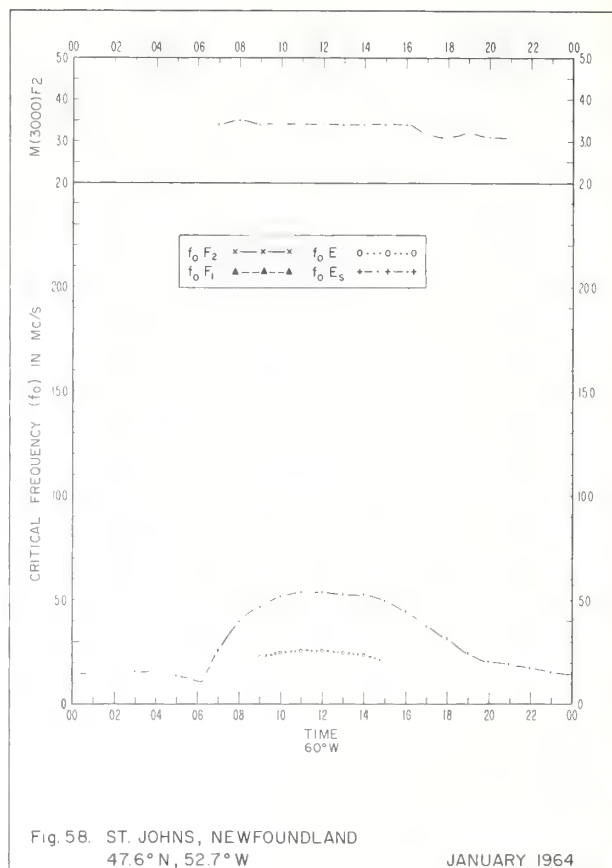
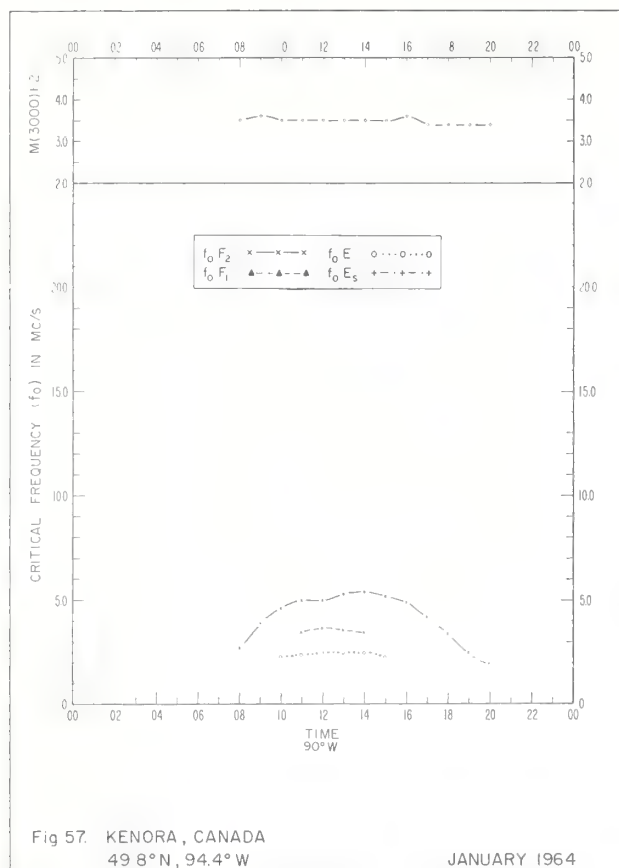
FEBRUARY 1964

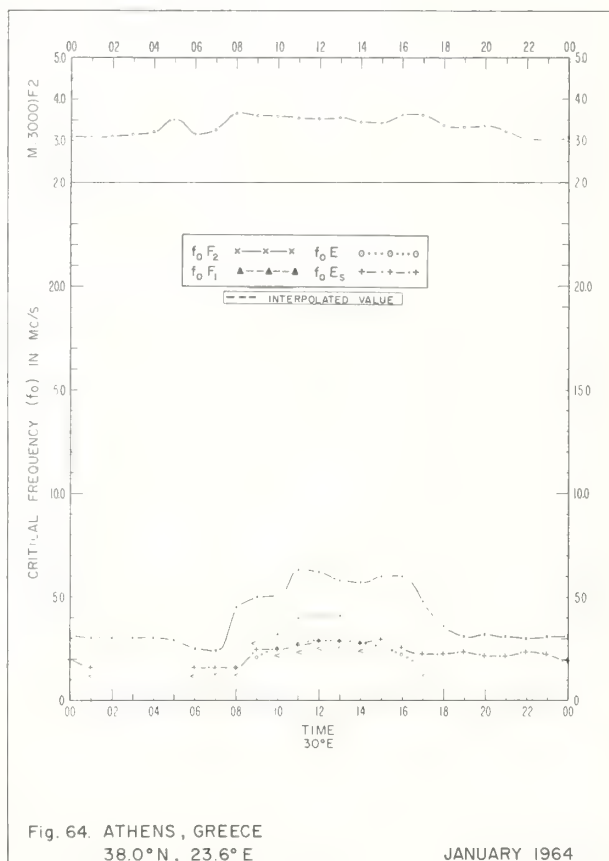
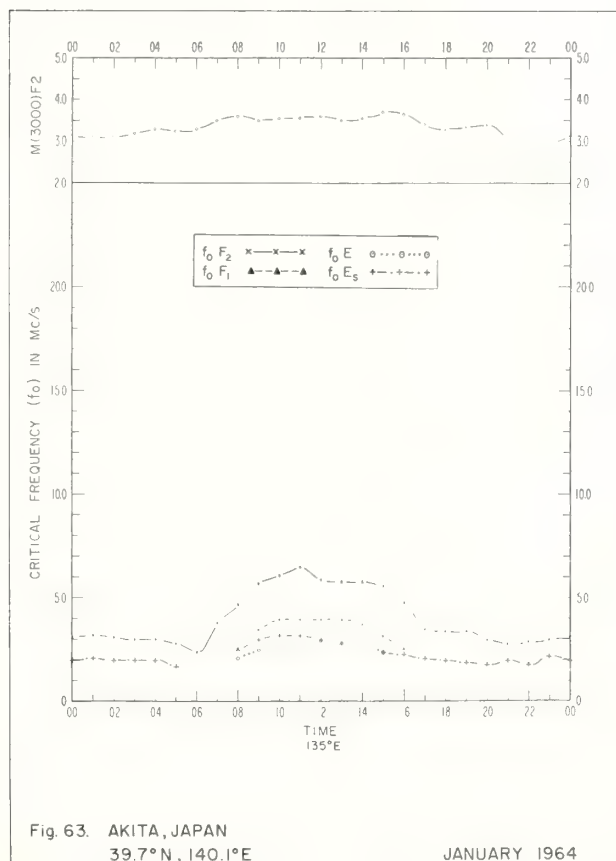
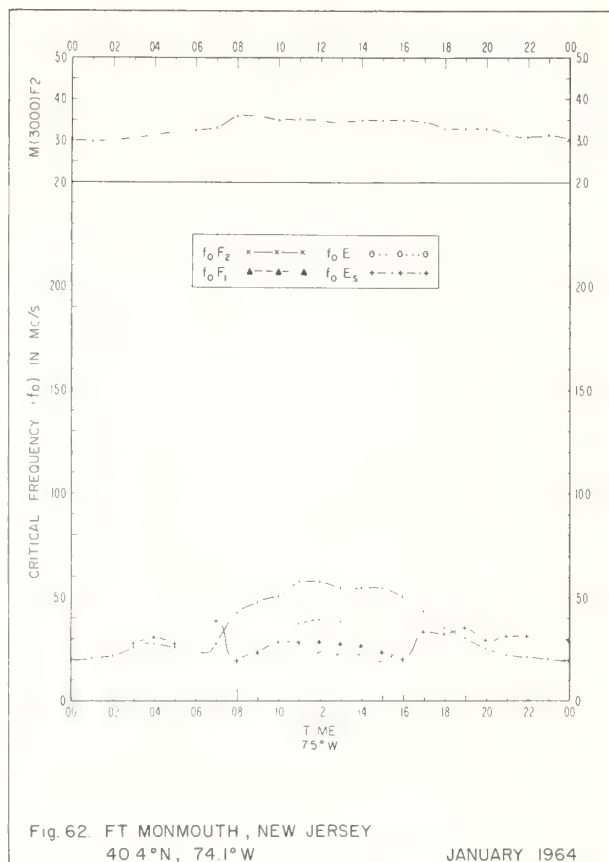
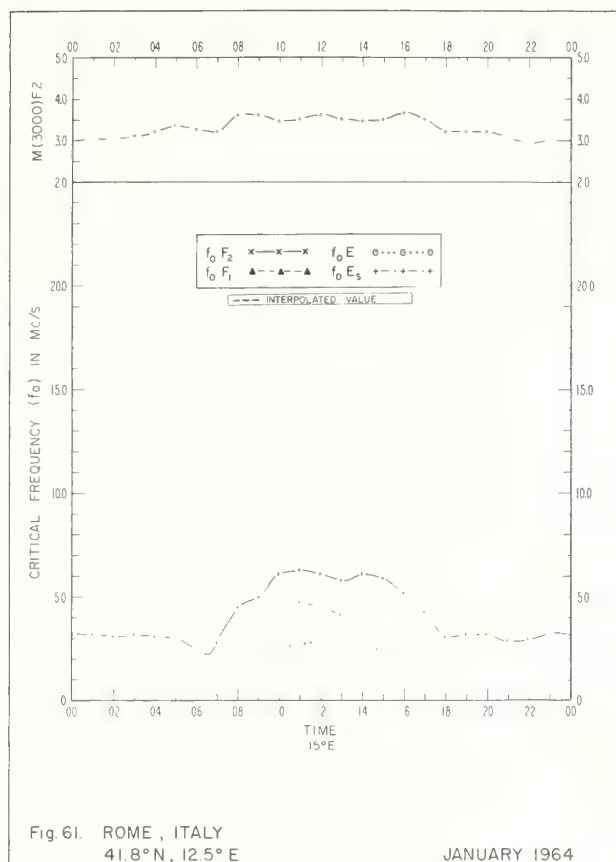












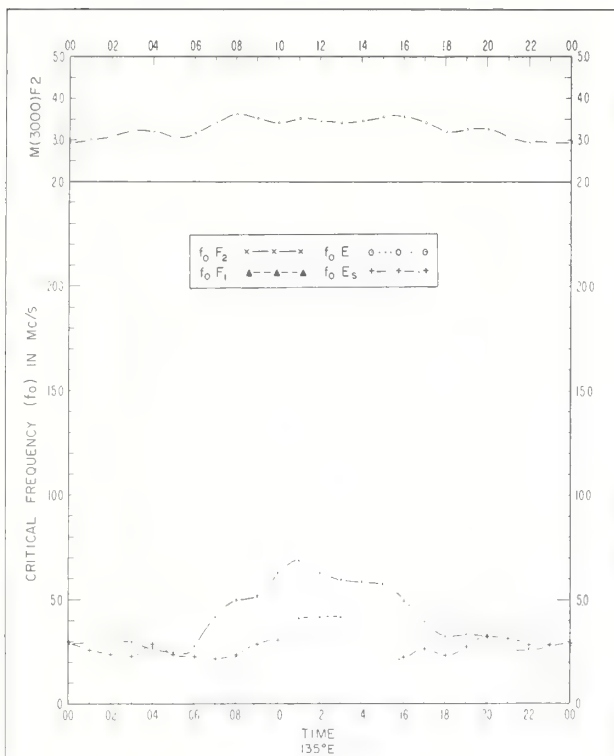


Fig 65 KOKUBUNJI, TOKYO, JAPAN
35.7°N, 139.5°E

JANUARY 1964

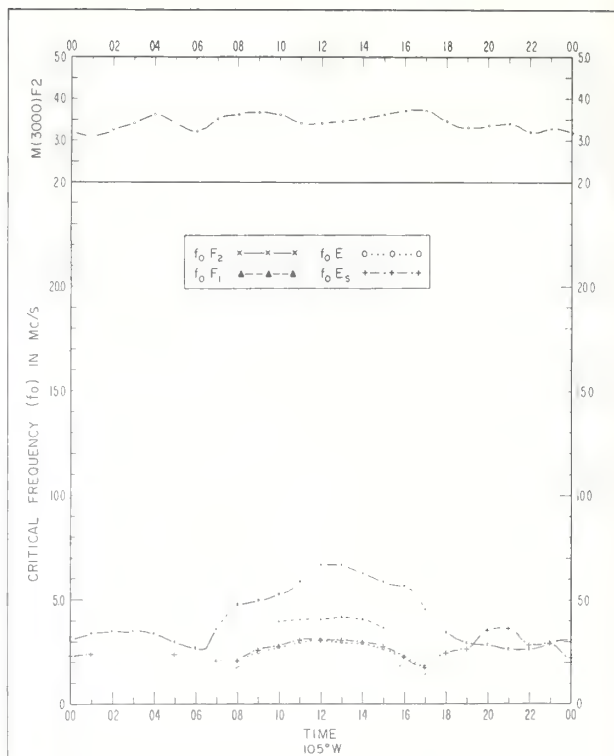


Fig 66. WHITE SANDS, NEW MEXICO
32.3°N, 106.5°W

JANUARY 1964

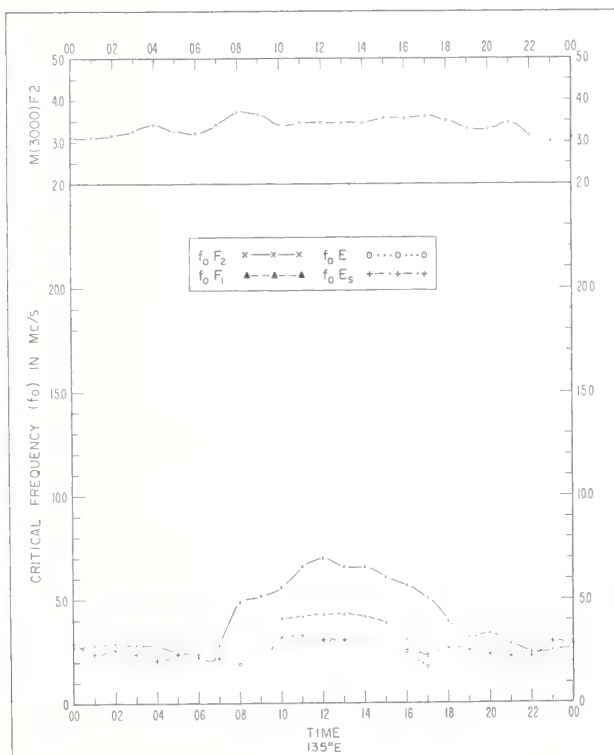


Fig. 67. YAMAGAWA, JAPAN
31.2°N, 130.6°E

JANUARY 1964

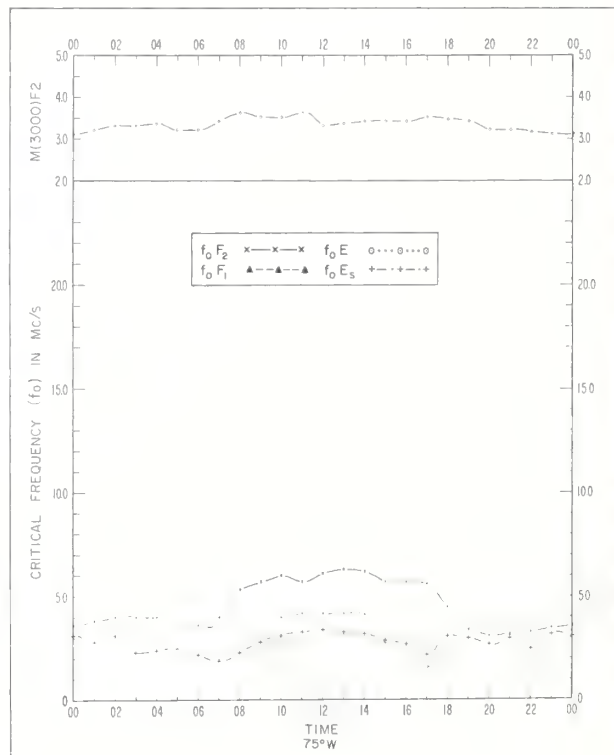
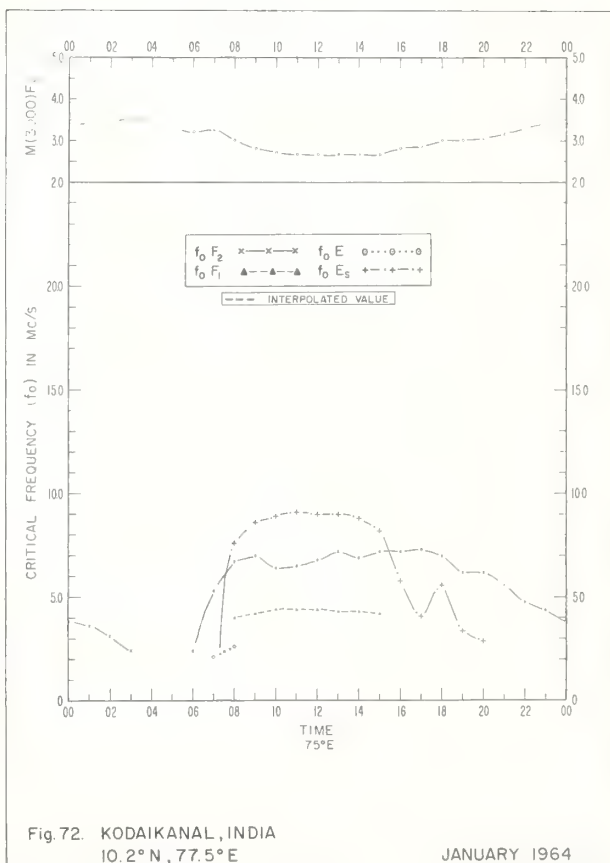
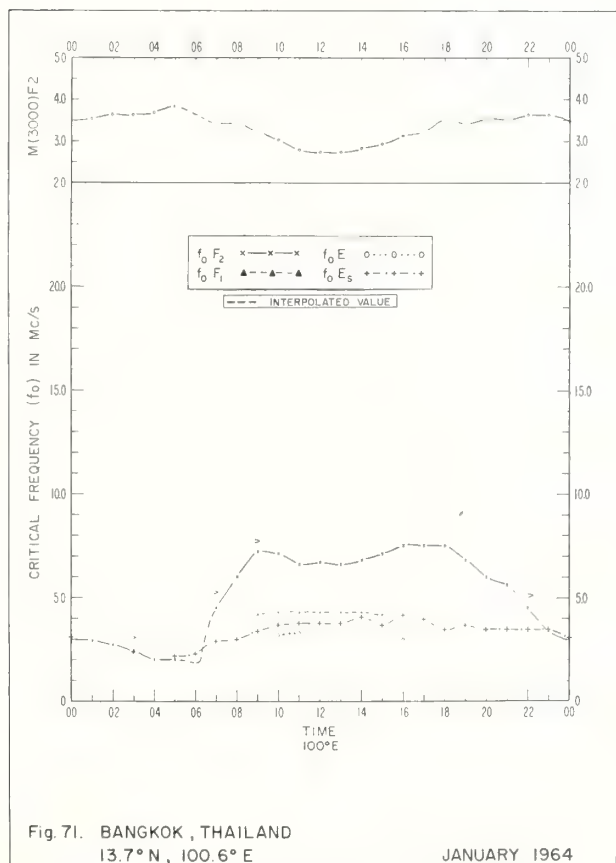
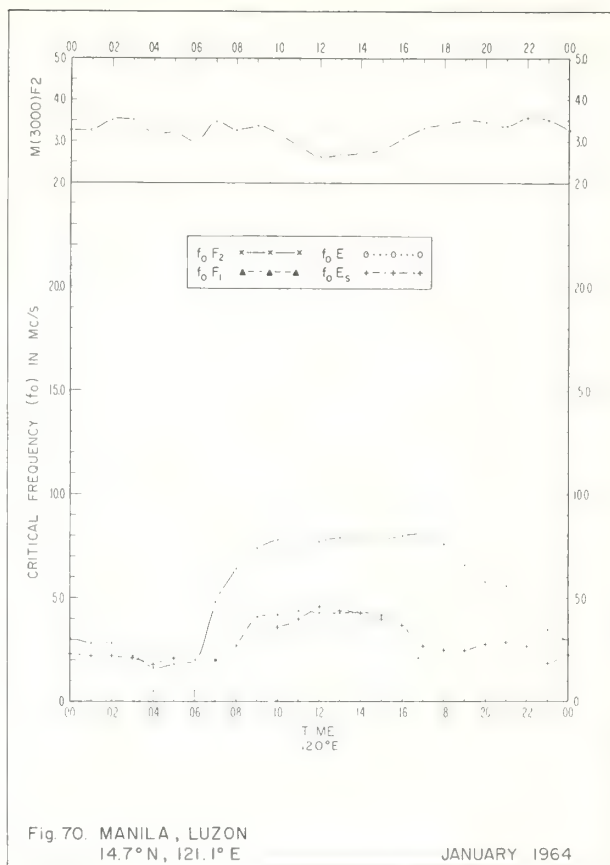
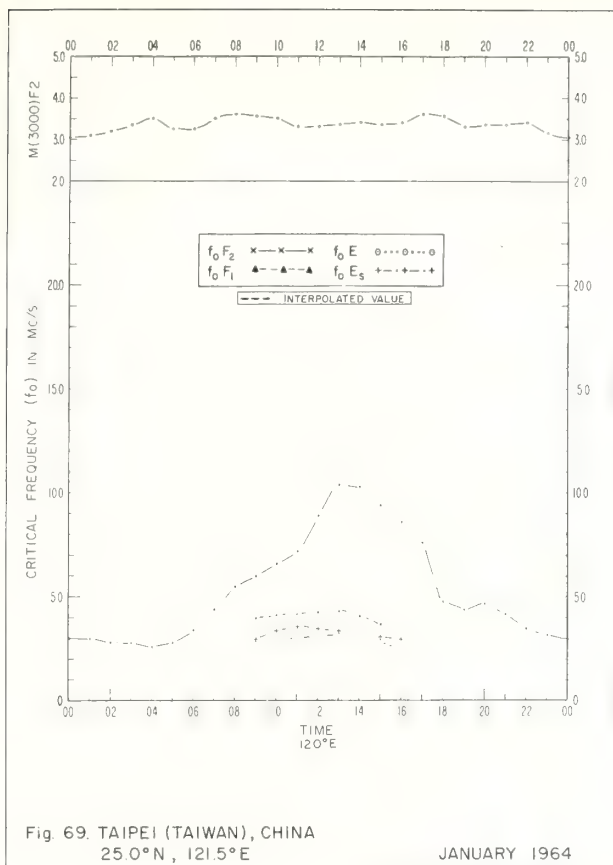
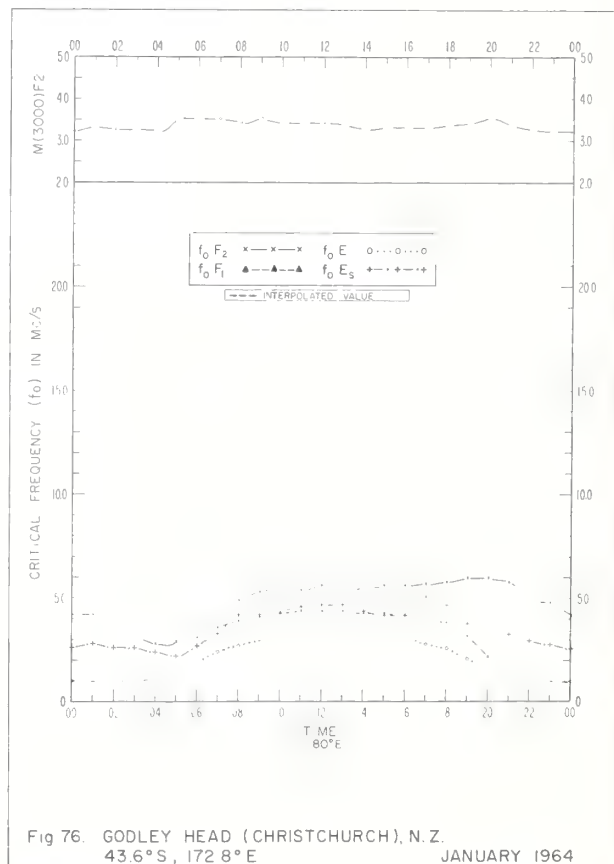
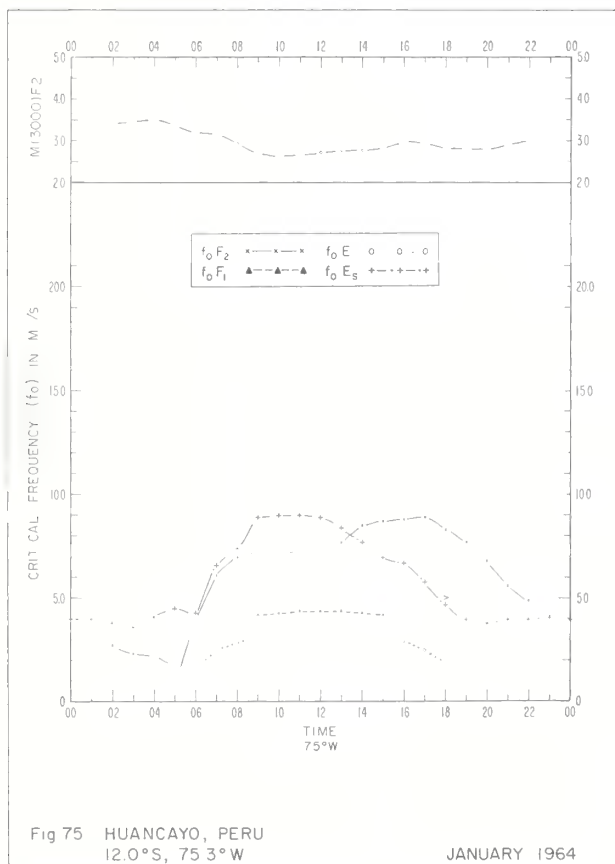
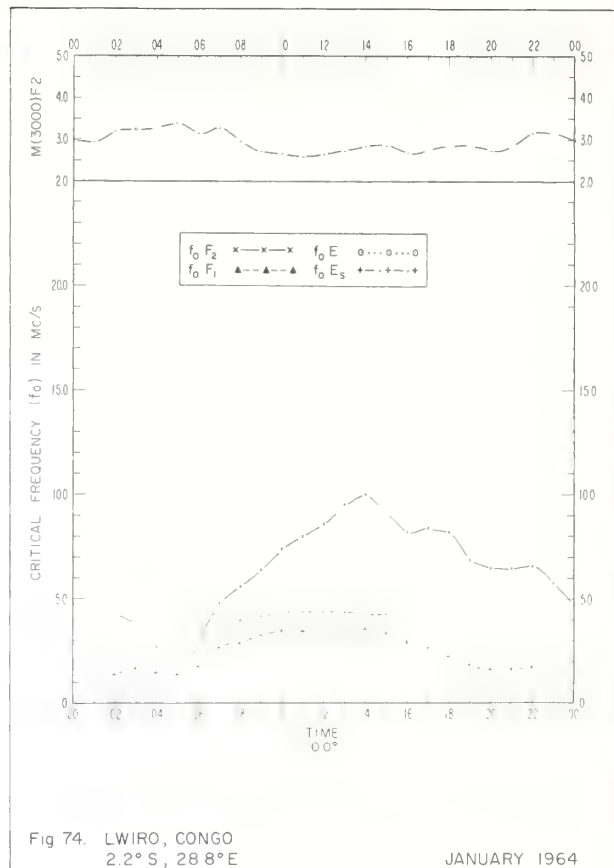
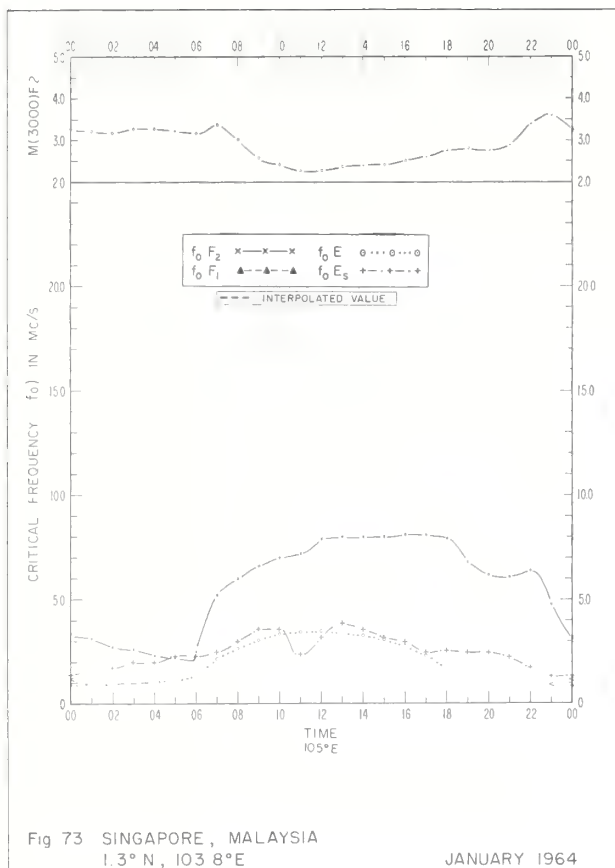
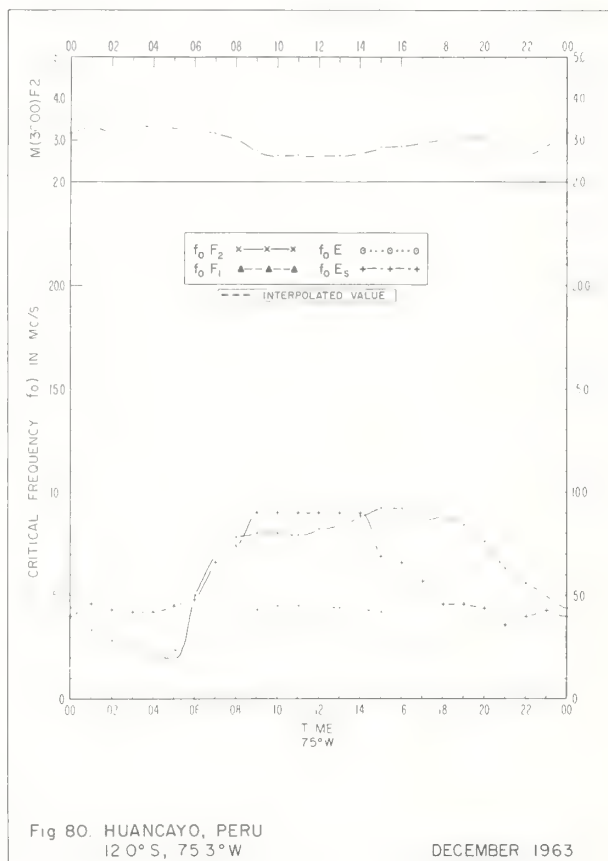
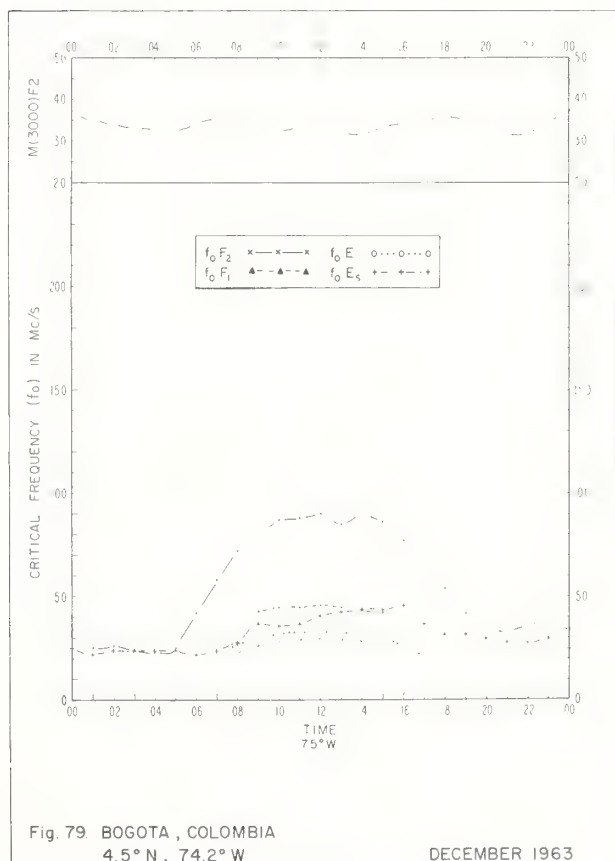
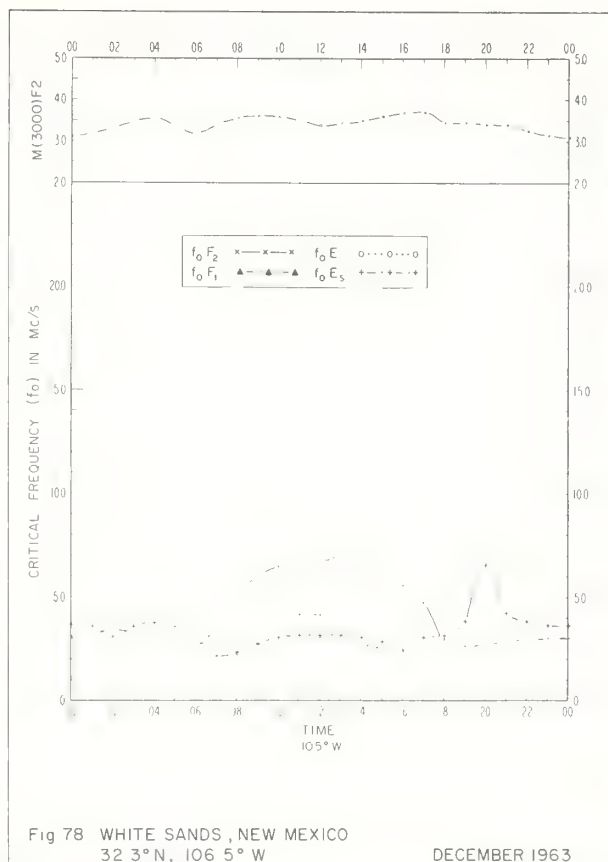
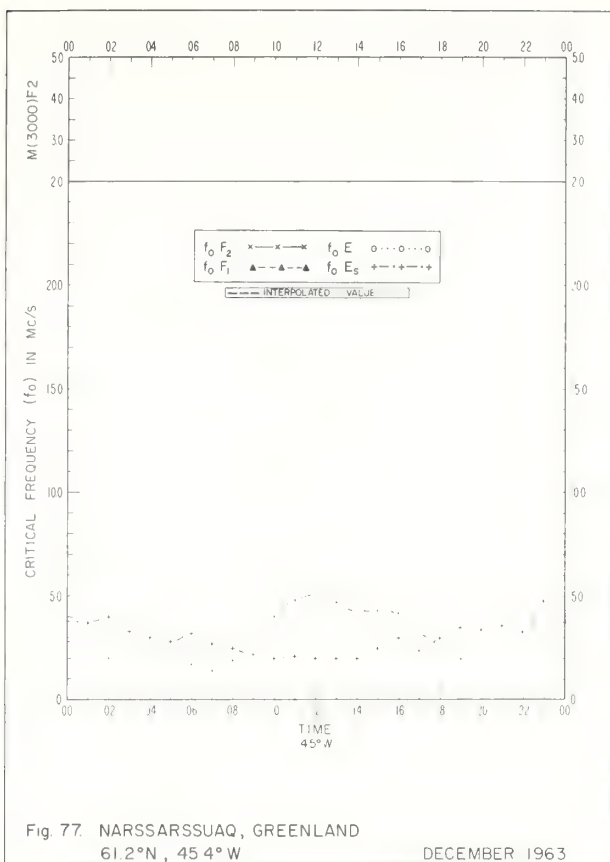


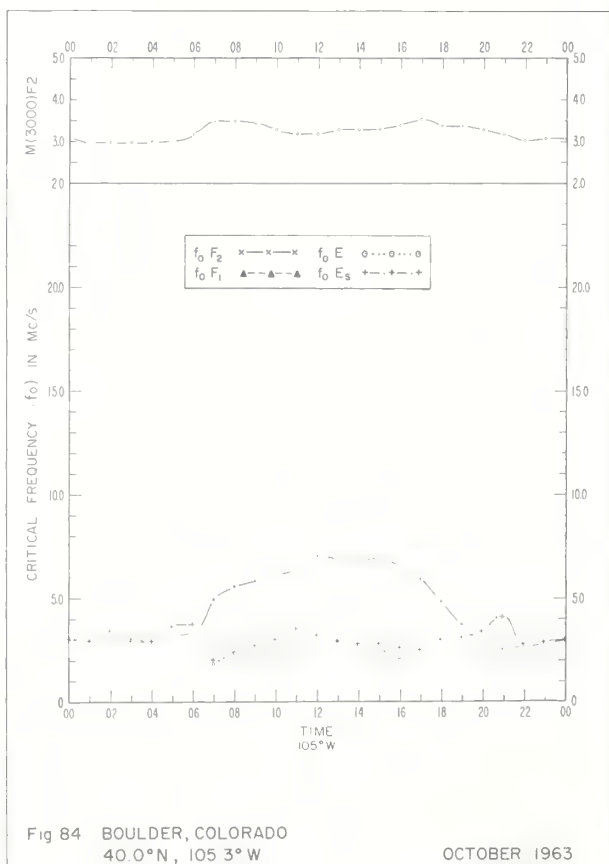
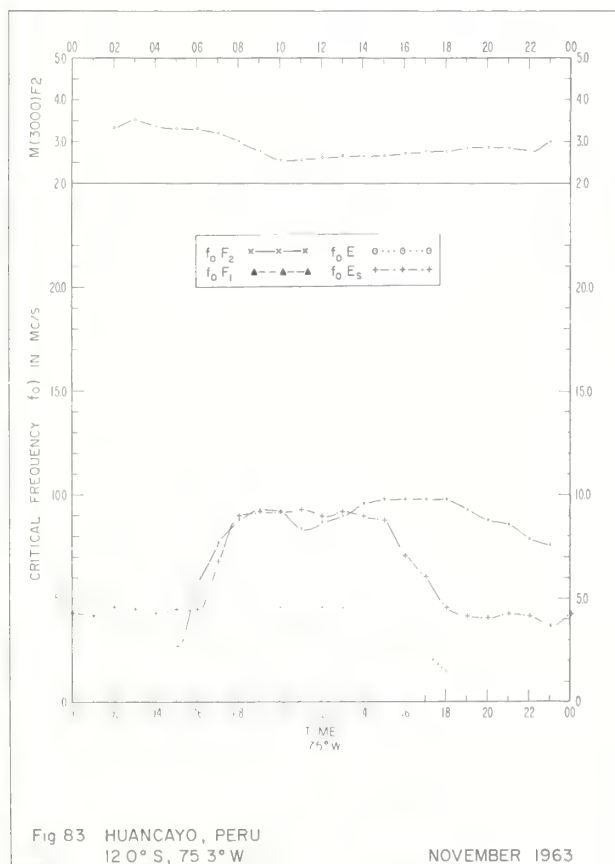
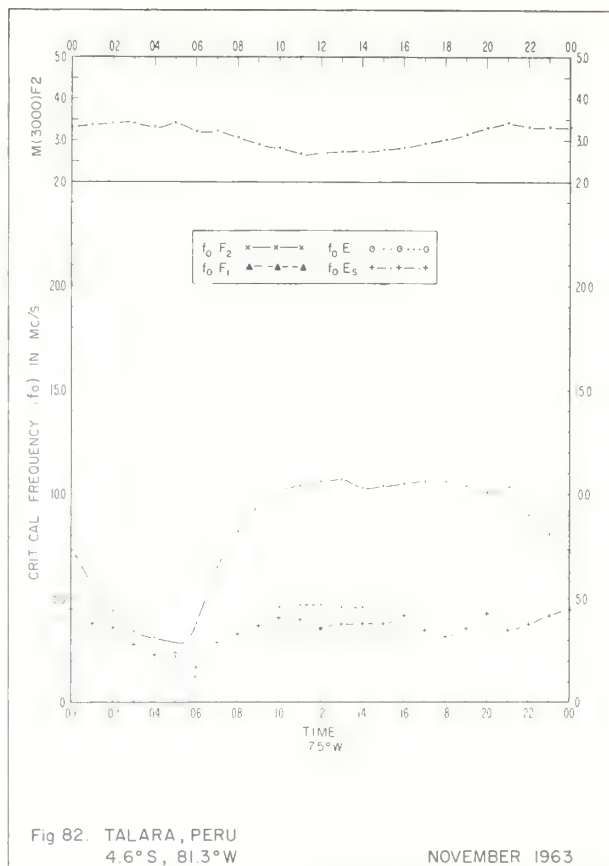
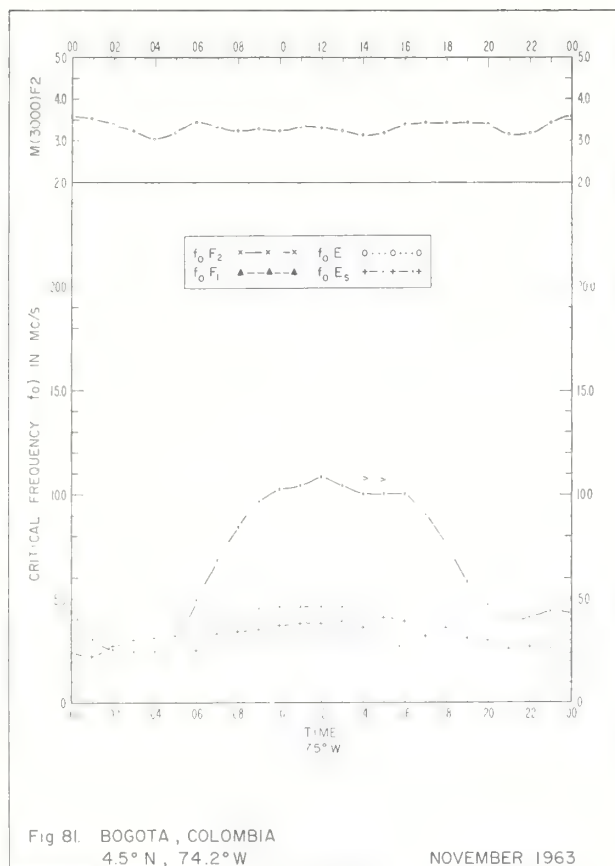
Fig 68. GRAND BAHAMA I.
26.6°N, 78.2°W

JANUARY 1964









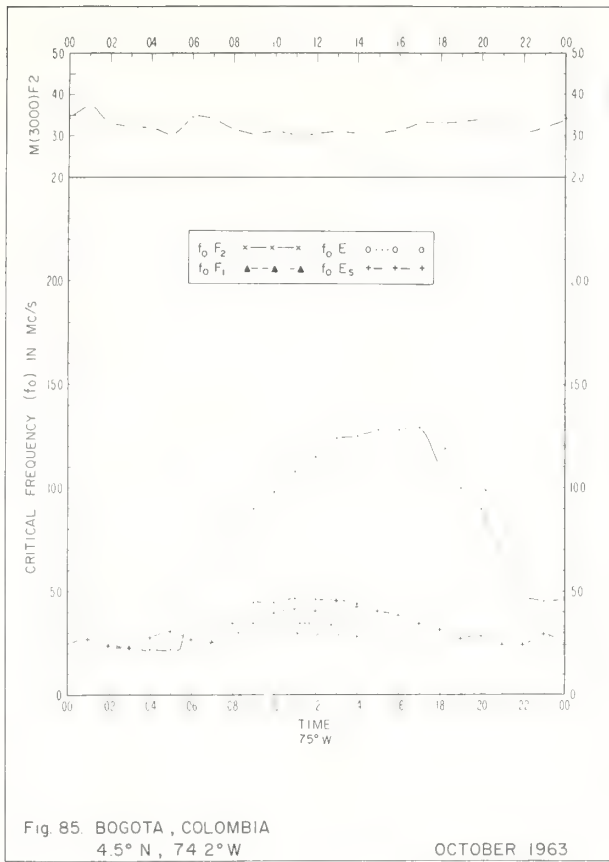


Fig. 85. BOGOTA, COLOMBIA
4.5° N, 74.2° W

OCTOBER 1963

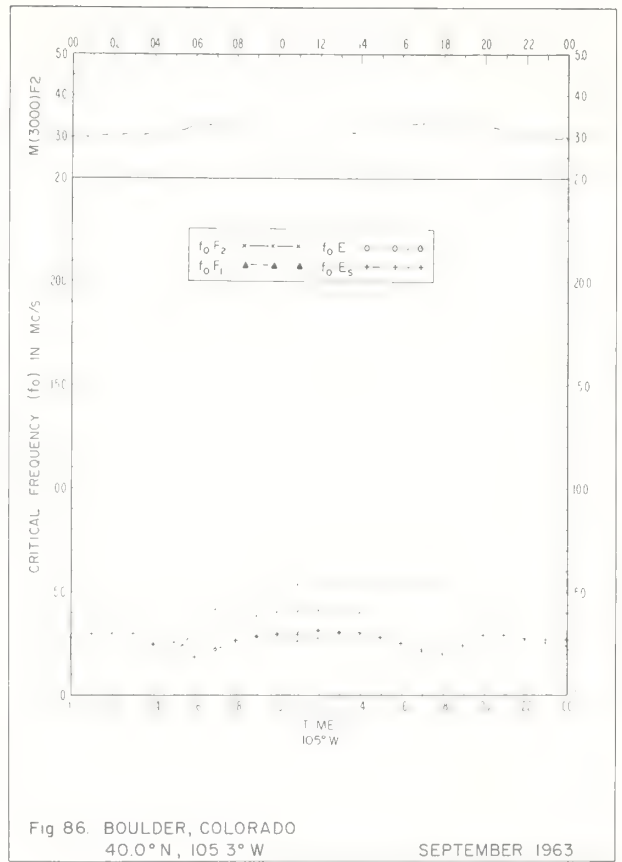


Fig. 86. BOULDER, COLORADO
40.0° N, 105.3° W

SEPTEMBER 1963

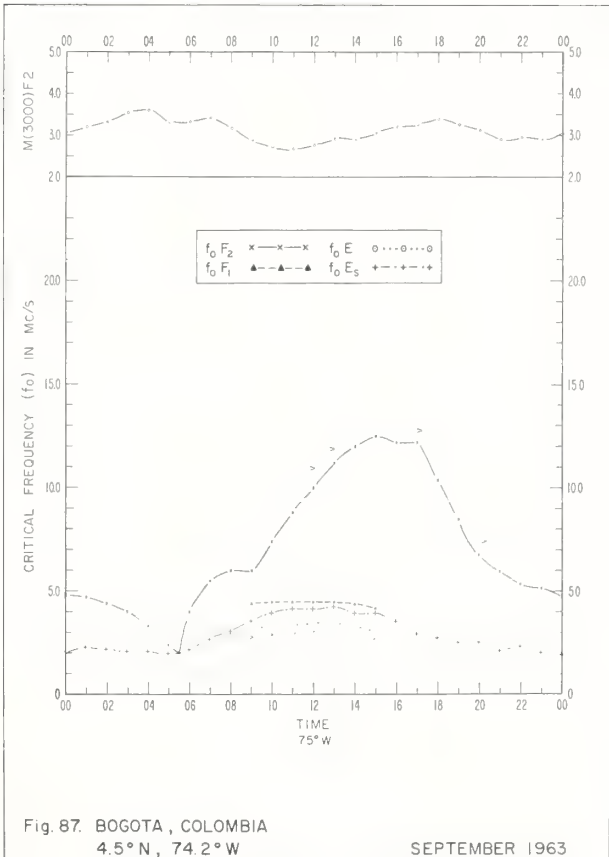


Fig. 87. BOGOTA, COLOMBIA
4.5° N, 74.2° W

SEPTEMBER 1963

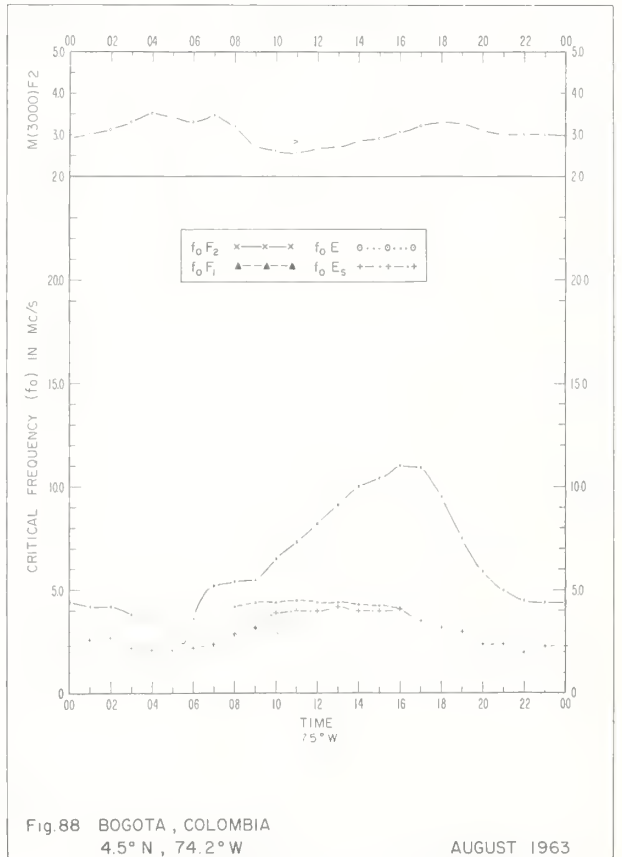
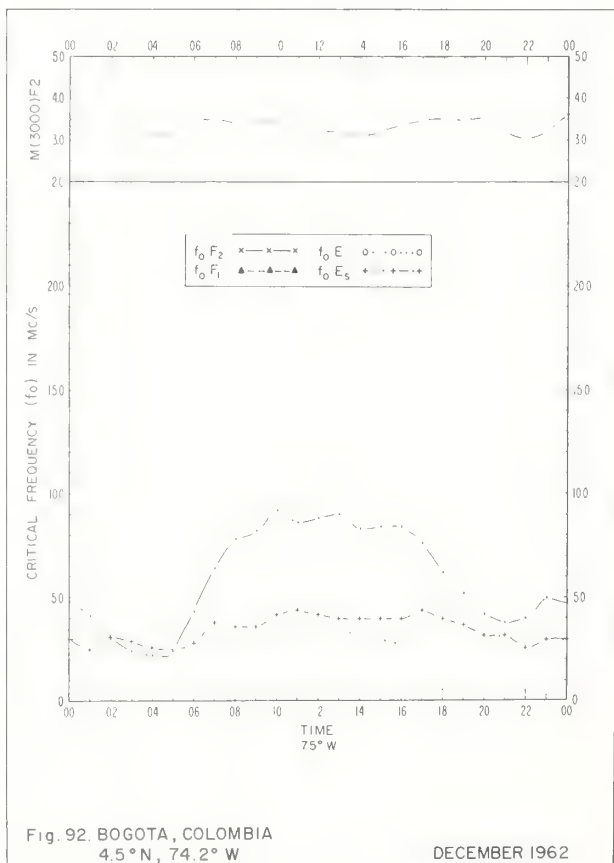
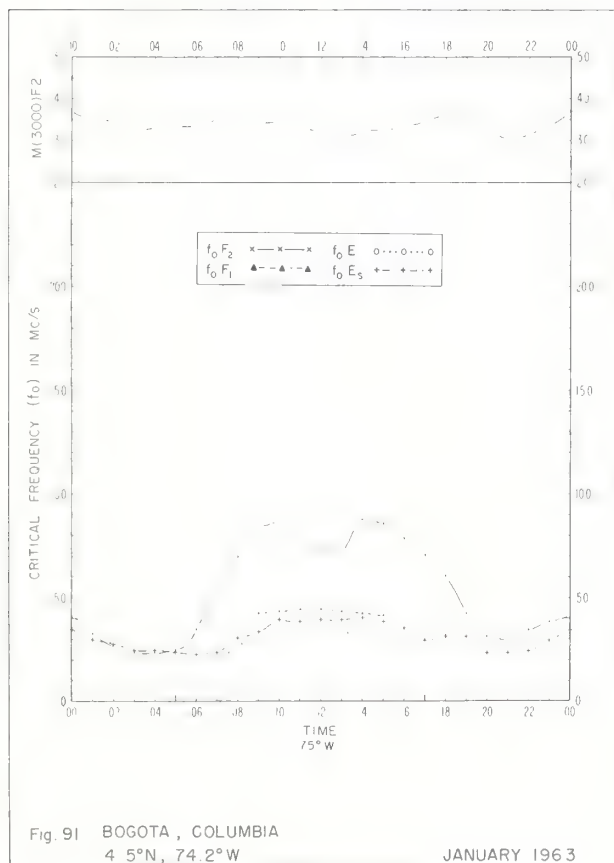
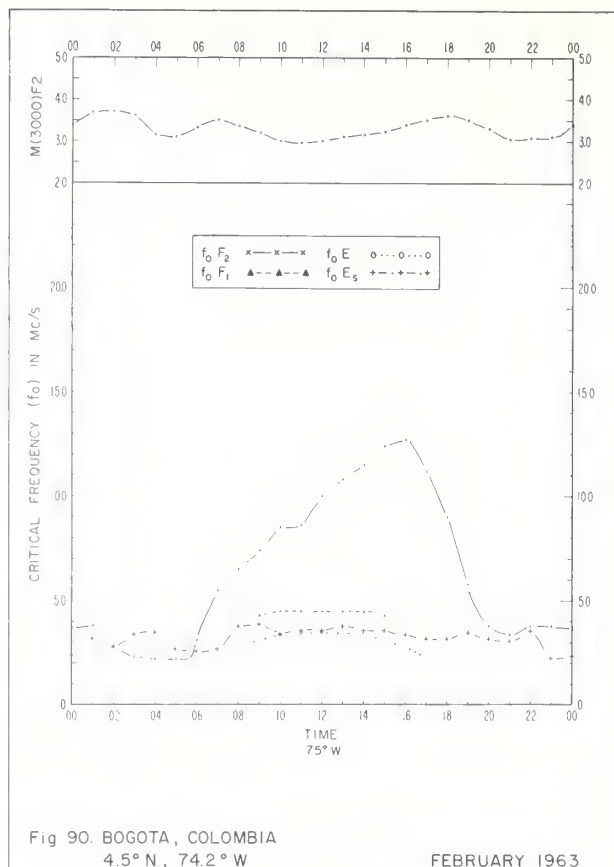
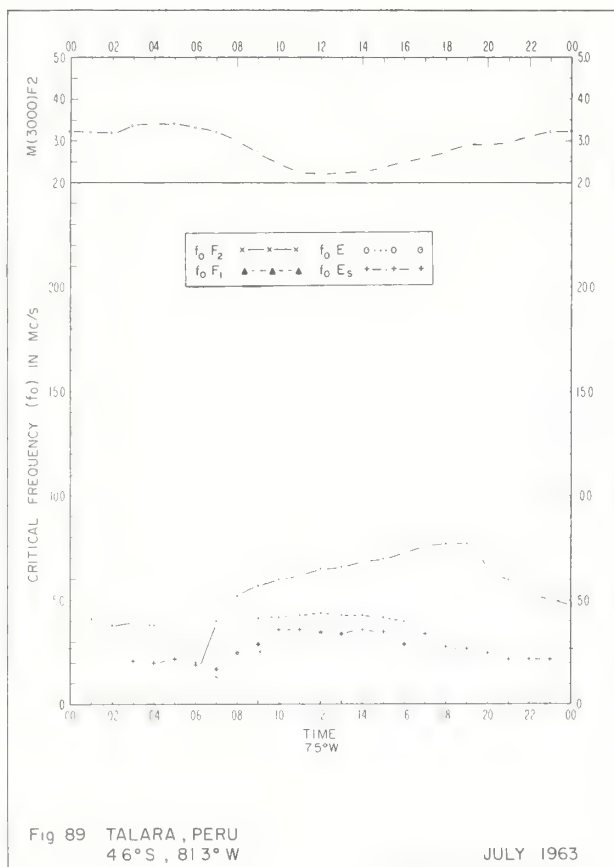
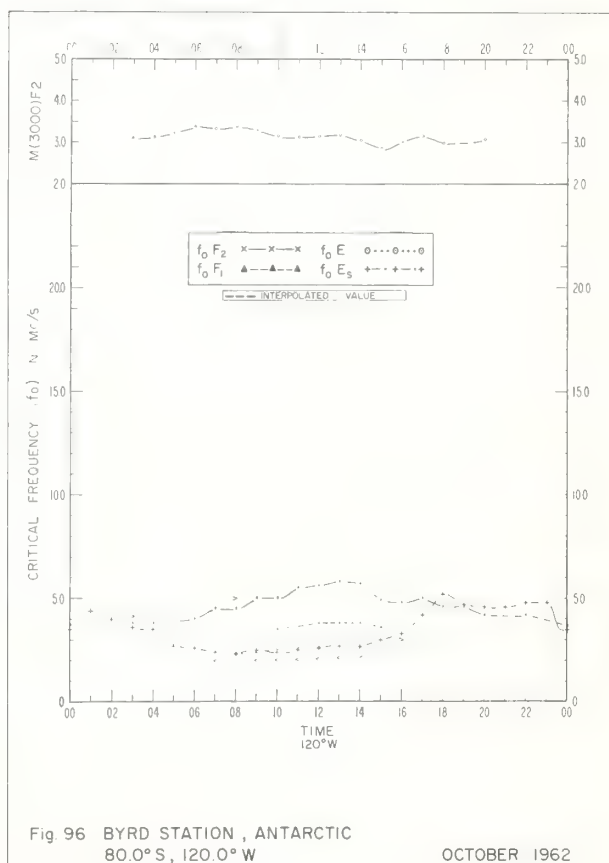
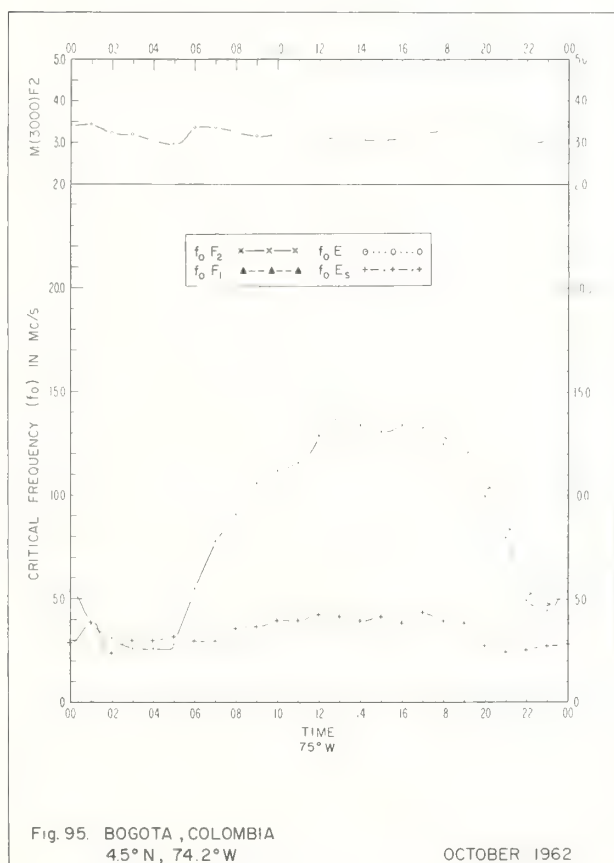
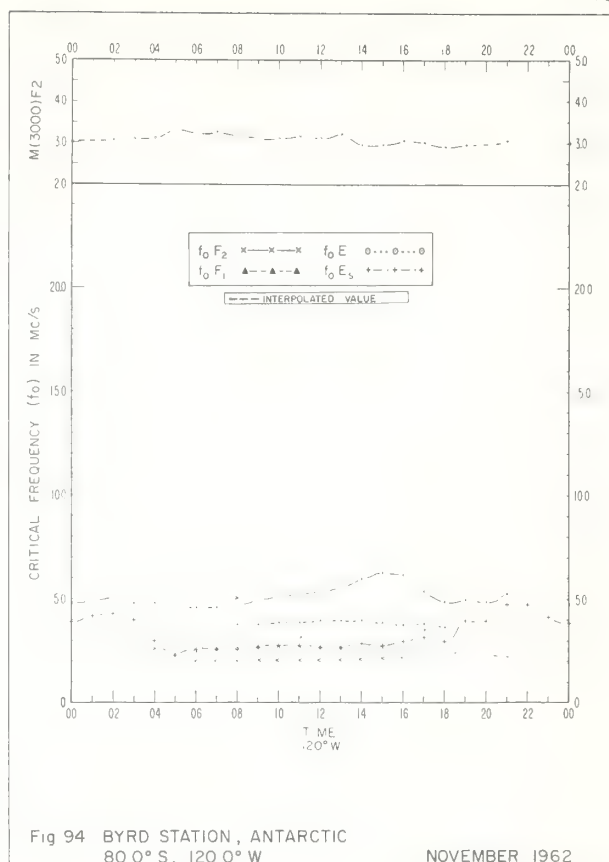
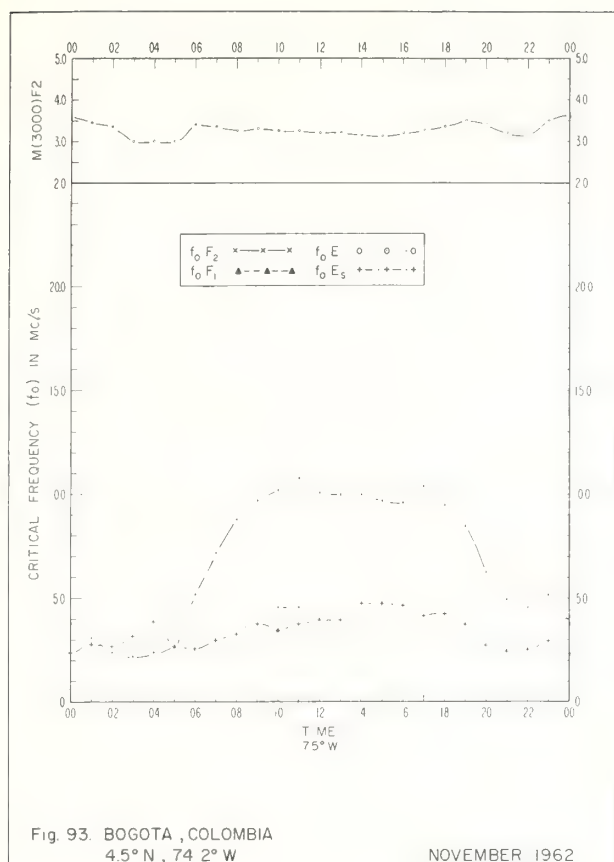


Fig. 88. BOGOTA, COLOMBIA
4.5° N, 74.2° W

AUGUST 1963





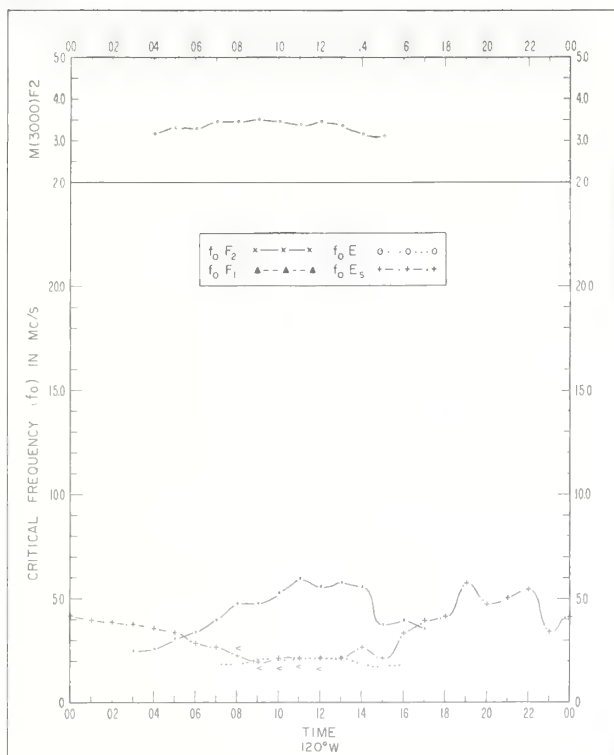


Fig 97 BYRD STATION, ANTARCTIC
80° S, 120° W

SEPTEMBER 1962

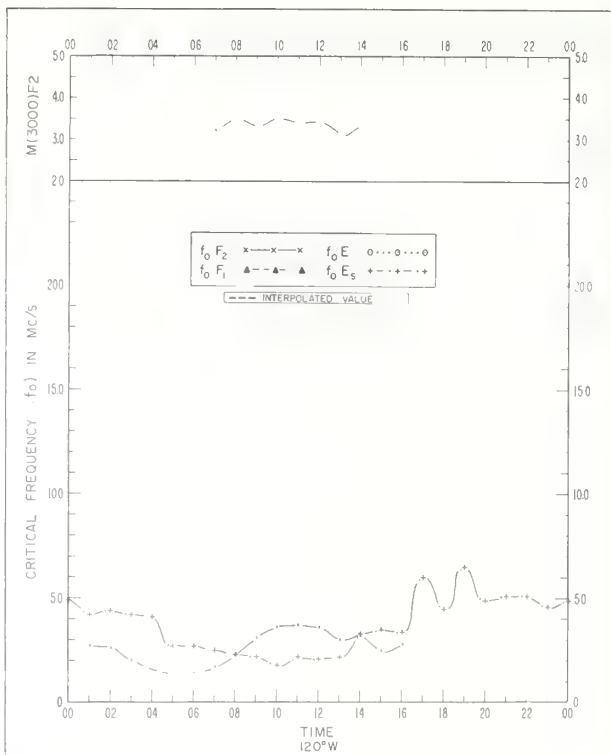


Fig 98 BYRD STATION, ANTARCTIC
80° S, 120° W

AUGUST 1962

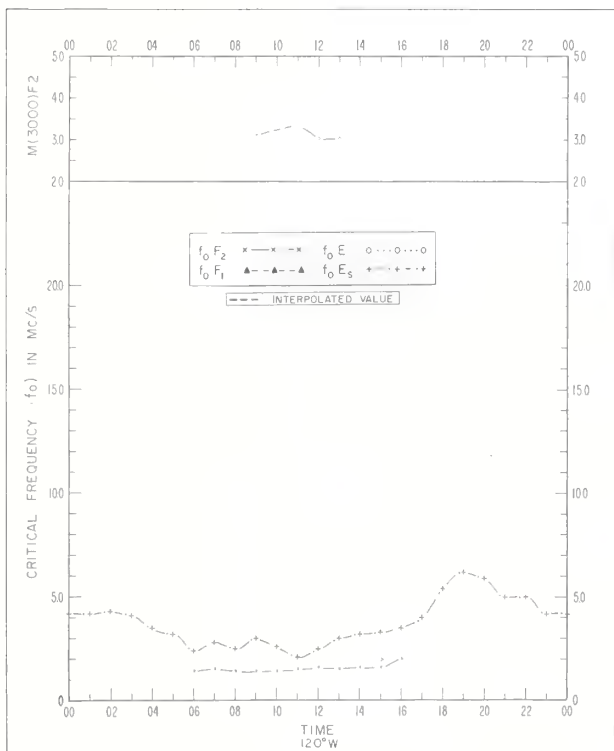


Fig 99. BYRD STATION, ANTARCTIC
80.0° S, 120.0° W

JULY 1962

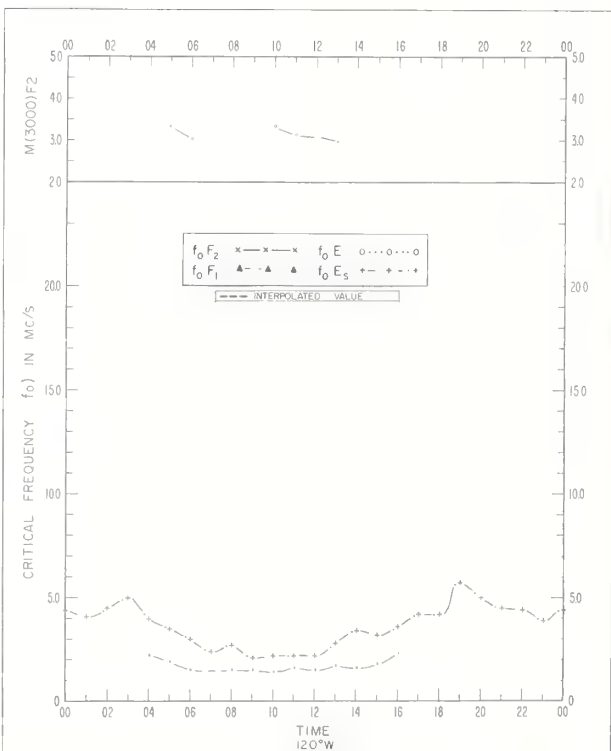


Fig 100. BYRD STATION, ANTARCTIC
80.0° S, 120.0° W

JUNE 1962

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CRPL-F (Part A), "Ionospheric Data."

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